Product Datasheet

GRP78/HSPA5 Antibody - BSA Free NBP1-06274

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-06274

GRP78/HSPA5 Antibody - BSA Free

GRP78/HSPA5 Antibody - BSA Free	
Product Information	
0.1 ml	
1.0 mg/ml	
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.	
Polyclonal	
0.02% Sodium Azide	
IgG	
Immunogen affinity purified	
PBS	
78 kDa	
Rabbit	
3309	
HSPA5	
Human, Mouse, Rat, C. elegans, Chicken, Drosophila, Sheep, Zebrafish	
Use in Zebrafish reported in scientific literature (PMID:34327238) C. elegans reactivity reported in scientific literature (PMID: 31398187).	
ER Stress Marker	
Synthetic peptide made to an internal portion of human GRP78 (within residues 250-300). [Swiss-Prot# P11021]	
Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating	
Western Blot 0.5 ug/ml, Simple Western 1:25, Flow Cytometry 1:150. Use reported in scientific literature (PMID 20208072), Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:50. Use reported in scientific literature (PMID 24089213), Immunohistochemistry-Paraffin reported in scientific literature (PMID 24089213), Immunohistochemistry Free-Floating reported in scientific literature (PMID 26329458)	
In Western blot a band is seen at ~78 kDa. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.1 mg/mL, separated by Size, antibody dilution of 1:25, apparent MW was 77 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.	

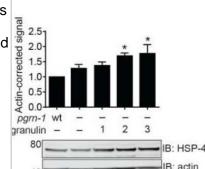


Images

Simple Western: GRP78/HSPA5 Antibody [NBP1-06274] - Image shows a specific band for GRP78 in 0.1 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

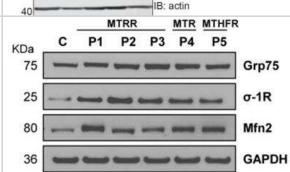
116-66-40-

Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - C. elegans granulins impair organismal fitness and resistance to ER stress. Total worm lysates from synchronized day 1 adult granulin-expressing animals were immunoblotted with an anti-GRP78/HSPA5 antibody (3 biological replicates). Anti-actin was used as a loading control. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pgen.1008295), licensed under a CC-BY license.



HSP-4/BiP expression

Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - Analysis of MAM-associated protein levels in control and patients' fibroblasts. (A) Equal amounts from one control and the five patients were loaded (50 ug of total cell lysates) and subjected to Western Blot with anti-Grp75, antisigma-1R and anti-Mfn2 antibodies. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of three independent experiments. PLoS One. 2016 Mar 9;11(3):e0150357. doi: 10.1371/journal.pone.0150357

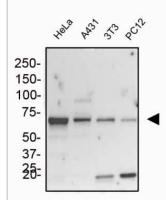


Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP1-06274] - NIH-3T3 cells were fixed and permeabilized for 10 minutes using -20C MeOH. The cells were incubated with anti-GRP78/HSPA5 at 2 ug/mL overnight at 4C and detected with an antirabbit Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.





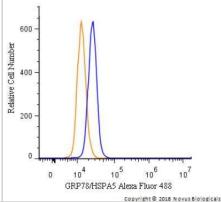
Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - Total protein from human HeLa and A431 cells, mouse 3T3 cells and rat PC12 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/mL anti-GPR78 in blocking buffer and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



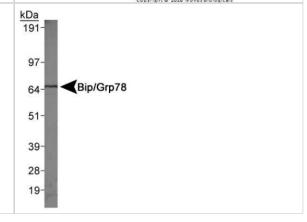
Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP1-06274] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-GRP78/HSPA5 at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - An intracellular stain was performed on NIH3T3 cells with GRP78/HSPA5 Antibody NBP1-06274AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

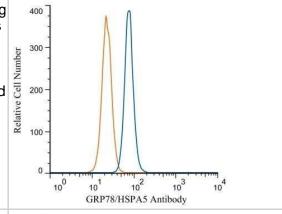


Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - Detection of Bip/Grp78 on HeLa whole cell extracts using NBP1-06274.

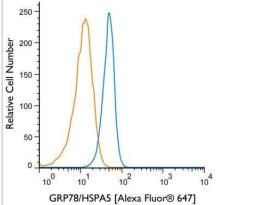




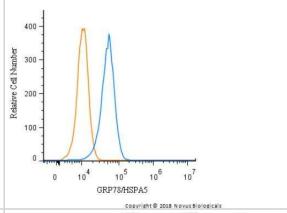
Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - Analysis using Alexa Fluor (R) 488 conjugate of NBP1-06274. An intracellular stain was performed on HeLa cells with GPR78/HSPA5 antibody NBP1-06274 (blue) and a matched isotype control NBP2-24893 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. 1 ug of antibody was added to 100 uL of staining buffer and cells were incubated for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



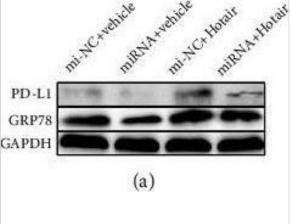
Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - An intracellular stain was performed on Jurkat cells with Alexa Fluor 647 conjugate of GPR78/HSPA5 antibody NBP1-06274AF647 (blue) and a matched isotype control NBP2-24893AF647 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - An intracellular stain was performed on HeLa with NBP1-06274 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550.



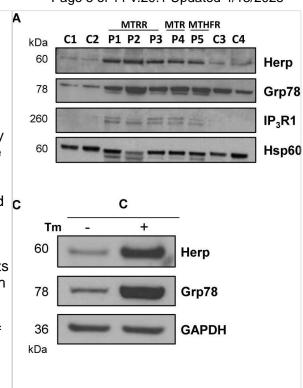
Western Blot: GRP78/HSPA5 Antibody - BSA Free [NBP1-06274] -Hotair promotes the expression of GRP78 & PD-L1, mediates the proliferation, & helps to regulate the T cell-mediated immune responses in Tu212 & Hep-2 cells. Western blot analysis of GRP78 & PD-L1 after mi-NC or has-miR-30a-5p & vehicle or Hotair transfection in Hep-2 cells (a). The relative expression level of GRP78 & PD-L1 in Hep-2 cells (b). (c-e) The cell viability, apoptosis, & colony formation after mi-NC or hasmiR-30a-5p & vehicle or Hotair transfection in Hep-2 cells. (f-h) T cell killing assay of target Tu212 & Hep-2 cells cocultured with PBMC, & ELISA detects the concentration of cytokines (g) IFN-y & (h) IL-2. The targeted Tu212 & Hep-2 cells after 24 h transfected with mi-NC or hasmiR-30a-5p & vehicle or Hotair were cocultured with PBMC, & the cytotoxicity was measured by the LDH release assay. Data are mean ± SD of at least three independent experiments; $\Box p < 0.05$; $\Box \Box p < 0.01$; □□□p < 0.001. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/35419461), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

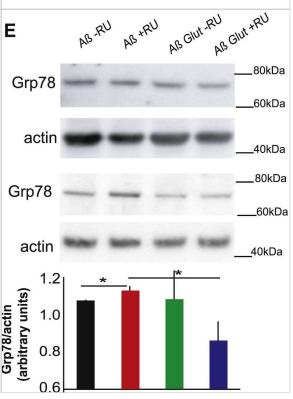


Western Blot: GRP78/HSPA5 Antibody - BSA Free [NBP1-06274] -Analysis of protein levels involved in ER stress & Ca2+ homeostasis & processing of mRNA XBP1 in control & patients-derived fibroblasts.(A) Equal amounts from controls & patients were loaded (50 µg of total cell lysates) & subjected to Western Blot with anti-Herp, anti-Grp78 & anti-IP3R1 antibodies. We used anti-Hsp60 antibody to ensure equal amounts of protein loaded in each lane. This result is representative of three independent experiments. Protein quantification was performed by laser densitometry. The ratios between proteins/Hsp60 for each cell line were calculated to determine the expression fold-change relative to control. (B) Data represent mean ± standard deviation of three independent experiments. (C) Equal amounts from controls were loaded c (50 μg of total cell lysates) & subjected to Western Blot with anti-Herp & anti-Grp78 antibodies. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of two independent experiments. (D) Equal amounts from control & patients were loaded (50 µg of total cell lysates) & subjected to Western Blot with anti-phospho-PERK antibody. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of two independent experiments. (E) RT-PCR analysis of the processing of mRNA XBP1 transcription factor. Tm: tunicamycin; u: XBP1 unspliced form; s: XBP1 spliced form. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0150357), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

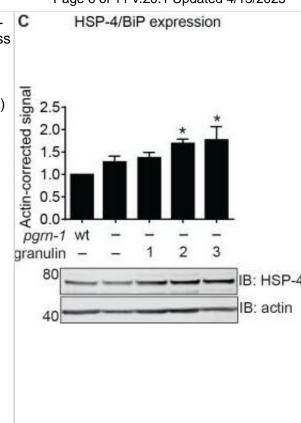
Western Blot: GRP78/HSPA5 Antibody - BSA Free [NBP1-06274] - UPR Components Activated in Aβ-Expressing Flies Are Induced Even Further by Glut1 Overexpression(A) Western blot of eIF2 phosphorylation levels in heads of Aβ- & AβGlut1-expressing flies (+RU) & in controls (-RU), showing no significant difference. Bottom: plotted as means ± SEM (n = 3). Top: a representative gel from the same samples.(B) Grp78 mRNA levels in heads of 18-day-old flies expressing Aβ or Aβ Glut1 in neurons (+RU) & uninduced controls (-RU), measured by qPCR (relative to eIF1A), plotted as means ± SEM. Genotypes: UAS Aβ; elavGS, UAS Aβ/UAS Glut1; elavGS.(C) Quantification of GFP fluorescence in fly brains expressing an Xbp1GFP splicing reporter, plotted as means ± SEM (n = 6–13). Genotypes: elavGS/UAS-Xbp1GFP, UAS Aß; elavGS/UAS-Xbp1GFP, UAS Aβ/UAS Glut1; elavGS/UAS-Xbp1GFP.(D) Spliced Xbp1 mRNA levels in heads of 18-day-old flies expressing A\(\beta\) or Aß Glut1 in neurons (+RU) & uninduced controls (-RU), measured by qPCR (relative to eIF1A), plotted as means ± SEM(E) Western blot of Grp78 in 14-day-old flies of the same genotypes, plotted below as means ± SEM (n = 6-16). The image is a representative gel of the same samples. Genotypes: UAS Aβ; elavGS, UAS Aβ/UAS Glut1; elavGS.

□p ≤ 0.05; □□p ≤ 0.01, by ANOVA. See also Figure S2. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27524482), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





Immunocytochemistry/ Immunofluorescence: GRP78/HSPA5 Antibody -BSA Free [NBP1-06274] - C. elegans granulins impair organismal fitness & resistance to ER stress.(A) Wild-type (N2) & pgrn-1(-) animals with & without granulin expression were subjected to ER stress with tunicamycin (5 µg / ml). The fraction developing to L4 stage was quantified (n = 50, 3 biological replicates). (B) Wild-type (N2) & pgrn-1(-) animals with & without C. elegans progranulin over-expression (OE) were subjected to ER stress with tunicamycin (5 µg / ml). The fraction developing to L4 stage was quantified (n = 50, 3 biological replicates). (C) Total worm lysates from synchronized day 1 adult granulinexpressing animals were immunoblotted with an anti-HSP-4/BiP antibody (3 biological replicates). Anti-actin was used as a loading control. (D) Wild-type & pgrn-1(-) animals with & without granulin expression were staged as embryos. Animals were scored for development to L4 stage (n = 50, 12 biological replicates). (E) Measurement of body length at day 1 adulthood (n = 12). (F) Measurement of short-term associative learning (three biological replicates). The glutamate receptor mutant nmr-1(ak4) was used as a positive control. Throughout, error bars show mean ± SEM, one or twoway ANOVA with post-hoc Tukey multiple comparisons test. Comparisons are to wild-type unless otherwise indicated (*P<0.05, ***P<0.001, ****P<0.0001, ns = not significant, wt = wild-type). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31398187), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

VerPlank JJ, Gawron JM, Silvestri NJ et Al. Knockout of PA200 improves proteasomal degradation and myelination in a proteotoxic neuropathy Life Sci Alliance 2024-02-06 [PMID: 38320810]

Moore SM, Gawron J, Stevens M et al. Pharmacologically increasing cGMP improves proteostasis and reduces neuropathy in mouse models of CMT1 Cellular and Molecular Life Sciences: CMLS 2024-10-14 [PMID: 39400753]

Rudalska R, Harbig J, Snaebjornsson M et al. LXR alpha activation and Raf inhibition trigger lethal lipotoxicity in liver cancer Nature Cancer 2021-02-01 [PMID: 35122079]

Raphaël Santinelli, Nathalie Benz, Julie Guellec, Fabien Quinquis, Ervin Kocas, Johan Thomas, Tristan Montier, Chandran Ka, Emilie Luczka-Majérus, Edouard Sage, Claude Férec, Christelle Coraux, Pascal Trouvé, Massimo Conese The Inhibition of the Membrane-Bound Transcription Factor Site-1 Protease (MBTP1) Alleviates the p.Phe508del-Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Defects in Cystic Fibrosis Cells Cells 2024-01-18 [PMID: 38247876]

Shastri S, Shinde T, Perera AP et al. Idebenone Protects against Spontaneous Chronic Murine Colitis by Alleviating Endoplasmic Reticulum Stress and Inflammatory Response Biomedicines 2020-09-28 [PMID: 32998266]

Catterson J, Minkley L, Aspe S et al. Protein retention in the endoplasmic reticulum rescues A? toxicity in Drosophila. Neurobiology of Aging 2023-09-21 [PMID: 37837732] (WB, Drosophila)

Details:

1:1000 dilution

Shastri S, Shinde T, Woolley KL et al. Short-Chain Naphthoquinone Protects Against Both Acute and Spontaneous Chronic Murine Colitis by Alleviating Inflammatory Responses Frontiers in Pharmacology 2021-08-23 [PMID: 34497514]

Shrestha S, Erikson G, Lyon J et al. Aging compromises human islet beta cell function and identity by decreasing transcription factor activity and inducing ER stress Science advances 2022-10-07 [PMID: 36197983] (IHC-P, Human)

Lemoine H, Raud L, Foulquier F et al. Monoallelic pathogenic ALG5 variants cause atypical polycystic kidney disease and interstitial fibrosis American journal of human genetics 2022-07-20 [PMID: 35896117]

Aggarwal P, Liu Z, Cheng GQ et al. Disruption of the lipolysis pathway results in stem cell death through a sterile immunity-like pathway in adult Drosophila Cell reports 2022-06-21 [PMID: 35732115] (IF/IHC, Drosophila)

Yuan X, Shen Q, Ma W Long Noncoding RNA Hotair Promotes the Progression and Immune Escape in Laryngeal Squamous Cell Carcinoma through MicroRNA-30a/GRP78/PD-L1 Axis Journal of immunology research 2022-04-04 [PMID: 35419461] (WB, Human)

Li Q, Fan X, Lu W et al. Novel NPR2 Gene Mutations Affect Chondrocytes Function via ER Stress in Short Stature Cells 2022-04-08 [PMID: 35455946] (WB)

More publications at http://www.novusbio.com/NBP1-06274



Procedures

Western Blot Protocol for GRP78/HSPA5 Antibody (NBP1-06274)

Western Blot Protocol

- 1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
- 2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
- 3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
- 4. Rinse the blot TBS -0.05% Tween 20 (TBST).
- 5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
- 6. Wash the membrane in TBST three times for 10 minutes each.
- 7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
- 8. Wash the membrane in TBST three times for 10 minutes each.
- 9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
- 10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
- 11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Immunohistochemistry-Paraffin Protocol for GRP78/HSPA5 Antibody (NBP1-06274)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer all the time).

Staining:

- 1. Wash sections in deionized water three times for 5 minutes each.
- 2. Wash sections in PBS for 5 minutes.
- 3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
- 4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
- 5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
- Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
- 7. Wash sections three times in wash buffer for 5 minutes each.
- 8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
- 9. As soon as the sections develop, immerse slides in deionized water.
- 10. Counterstain sections in hematoxylin.
- 11. Wash sections in deionized water two times for 5 minutes each.
- 12. Dehydrate sections.
- 13. Mount coverslips.



Immunocytochemistry/Immunofluorescence Protocol for GRP78/HSPA5 Antibody (NBP1-06274) Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

- 1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
- 2. Remove the formalin and wash the cells in PBS.
- 3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
- 4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
- 5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
- 6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
- 7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
- 8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
- 9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
- 10. Counter stain DNA with DAPi if required.



Flow (Intracellular) Protocol for GRP78/HSPA5 Antibody (NBP1-06274)

Protocol for Flow Cytometry Intracellular Staining Sample Preparation.

- 1. Grow cells to 60-85% confluency. Flow cytometry requires between 2 x 105 and 1 x 106 cells for optimal performance.
- 2. If cells are adherent, harvest gently by washing once with staining buffer and then scraping. Avoid using trypsin as this can disrupt certain epitopes of interest. If enzymatic harvest is required, use Accutase, Collagenase, or TrypLE Express for a less damaging option.
- 3. Reserve 100 uL for counting, then transfer cell volume into a 50 mL conical tube and centrifuge for 8 minutes at 400 RCF.
- a. Count cells using a hemocytometer and a 1:1 trypan blue exclusion stain to determine cell viability before starting the flow protocol. If cells appear blue, do not proceed.
- 4. Re-suspend cells to a concentration of 1 x 106 cells/mL in staining buffer (NBP2-26247).
- 5. Aliquot out 100 uL samples in accordance with your experimental samples.

Tip: When cell surface and intracellular staining are required in the same sample, it is advisable that the cell surface staining be performed first since the fixation and permeabilization steps might reduce the availability of surface antigens.

Intracellular Staining.

Tip: When performing intracellular staining, it is important to use appropriate fixation and permeabilization reagents based upon the target and its subcellular location. Generally, our Intracellular Flow Assay Kit (NBP2-29450) is a good place to start as it contains an optimized combination of reagents for intracellular staining as well as an inhibitor of intracellular protein transport (necessary if staining secreted proteins). Certain targets may require more gentle or transient permeabilization protocols such as the commonly employed methanol or saponin-based methods. Protocol for Cytoplasmic Targets:

- 1. Fix the cells by adding 100 uL fixation solution (such as 4% PFA) to each sample for 10-15 minutes.
- 2. Permeabilize cells by adding 100 uL of a permeabilization buffer to every 1 x 106 cells present in the sample. Mix well and incubate at room temperature for 15 minutes.
- a. For cytoplasmic targets, use a gentle permeabilization solution such as 1X PBS + 0.5% Saponin or 1X PBS + 0.5% Tween-20.
- b. To maintain the permeabilized state throughout your experiment, use staining buffer + 0.1% of the permeabilization reagent (i.e. 0.1% Tween-20 or 0.1% Saponin).
- 3. Following the 15 minute incubation, add 2 mL of the staining buffer + 0.1% permeabilizer to each sample.
- 4. Centrifuge for 1 minute at 400 RCF.
- 5. Discard supernatant and re-suspend in 100 uL of staining buffer + 0.1% permeabilizer.
- 6. Add appropriate amount of each antibody (eg. 1 test or 1 ug per sample, as experimentally determined).
- 7. Mix well and incubate at room temperature for 30 minutes- 1 hour. Gently mix samples every 10-15 minutes.
- 8. Following the primary/conjugate incubation, add 1-2 mL/sample of staining buffer +0.1% permeabilizer and centrifuge for 1 minute at 400 RCF.
- 9. Wash twice by re-suspending cells in staining buffer (2 mL for tubes or 200 uL for wells) and centrifuging at 400 RCF for 5 minutes. Discard supernatant.
- 10. Add appropriate amount of secondary antibody (as experimentally determined) to each sample.
- 11. Incubate at room temperature in dark for 20 minutes.
- 12. Add 1-2 mL of staining buffer and centrifuge at 400 RCF for 1 minute and discard supernatant.
- 13. Wash twice by re-suspending cells in staining buffer (2 mL for tubes or 200 uL for wells) and centrifuging at 400 RCF for 5 minutes. Discard supernatant.
- 14. Resuspend in an appropriate volume of staining buffer (usually 500 uL per sample) and proceed with analysis on your flow cytometer.





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General: novus@novusbio.com

Products Related to NBP1-06274

NB800-PC1 HeLa Whole Cell Lysate

NBP1-06274PEP GRP78/HSPA5 Antibody Blocking Peptide

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-06274

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

