

Product Datasheet

14-3-3 gamma Antibody (HS23) NB100-407

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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NB100-407

14-3-3 gamma Antibody (HS23)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HS23
Preservative	0.1% Sodium Azide
Isotype	IgG1 Kappa
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	33 kDa

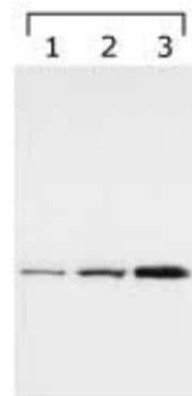
Product Description	
Host	Mouse
Gene ID	7532
Gene Symbol	YWHAG
Species	Human, Mouse, Rat, Bovine, Chicken, Zebrafish
Specificity/Sensitivity	NB100-407 reacts with the human form of intact, non-modified N-terminus 14-3-3 gamma. The naturally occurring form of 14-3-3 gamma in which the N-terminus Met is removed and the Val is acetylated is not recognized by this antibody.
Immunogen	N-terminal fragment of human 14-3-3 gamma [Uniprot: P61981]

Product Application Details	
Applications	Western Blot, Immunoblotting, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:50 - 1:250, Immunoblotting
Application Notes	In Western Blot, a distinct band around 33 kDa is detected. Use in immunoblotting reported in scientific literature (PMID: 29317475).

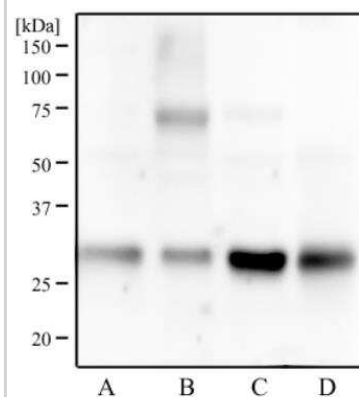


Images

Western Blot: 14-3-3 gamma Antibody (HS23) [NB100-407] - 14-3-3 gamma detected in lysates using NB 100-407. Lane 1: HeLa cell lysate, Lanes 2 and 3: bengamide treated lysates (8h and 24h, respectively).



Western Blot: 14-3-3 gamma Antibody (HS23) [NB100-407] - Analysis of HeLa (A), A431 (B), NIH3T3 (C) and PC-12 (D) cell lysate using 14-3-3 gamma antibody at 1:500.



Publications

Yang Q, Loureiro Z, Desai A et al. Regulation of lipolysis by 14-3-3 proteins on human adipocyte lipid droplets bioRxiv 2023-05-02 (WB, IP, Human)

Pasquini M, Grosjean N, Hixson KK et al. Zng1 is a GTP-dependent zinc transferase needed for activation of methionine aminopeptidase Cell reports 2022-05-17 [PMID: 35584675] (WB, Yeast)

Sandebring-Matton A, Axenhus M, Bogdanovic N Et al. Microdissected Pyramidal Cell Proteomics of Alzheimer Brain Reveals Alterations in Creatine Kinase B-Type, 14-3-3-gamma, and Heat Shock Cognate 71 Frontiers in Aging Neuroscience 2021-11-19 [PMID: 34867272] (IHC-P, Human)

Cao T, Jiang Y, Wang Z et al. MetAP2 inhibition increases energy expenditure through direct action on brown adipocytes J. Biol. Chem. 2019-05-02 [PMID: 31048375] (WB, Mouse)

Fujii K, Susanto TT, Saurabh S, Barna M. Decoding the Function of Expansion Segments in Ribosomes Mol. Cell 2018-12-20 [PMID: 30576652] (WB, Mouse)

Jonckheere V, Fijalkowska D, Van Damme P. Omics Assisted N-terminal Proteoform and Protein Expression Profiling On Methionine Aminopeptidase 1 (MetAP1) Deletion. Mol Cell Proteomics 2018-04-01 [PMID: 29317475]

Kleppe R, Rosati S, Jorge-Finnigan A et al. Phosphorylation dependence and stoichiometry of the complex formed by tyrosine hydroxylase and 14-3-3-gamma. Mol. Cell Proteomics. 2014-06-19 [PMID: 24947669] (WB, Human)

Details:

Native electrophoresis /immunodetection was performed on Tetrameric TH and dimeric 14-3-3 gamma complexes generated by mixing them in 1:3 subunit molar ratio (TH:14-3-3 gamma). 10 uM of purified TH (non-phosphorylated TH, TH-pS19 and TH-pS19pS40) was incubated with 30 uM 14-3-3 gamma for 5 min at room temperature and the samples were processed for WB using 14-3-3 gamma antibody at 1:1000 dilution.

Bhat S, Shim JS, Zhang F et al. Substituted oxines inhibit endothelial cell proliferation and angiogenesis. Org Biomol Chem. 2012-04-21 [PMID: 22391578] (WB, Human)

Zhang F, Bhat S, Gabelli SB et al. Pyridinylquinazolines selectively inhibit human methionine aminopeptidase-1 in cells. J Med Chem 2013-05-23 [PMID: 23634668] (WB, Human)

Shim JS, Matsui Y, Bhat S et al. Effect of nitroxoline on angiogenesis and growth of human bladder cancer. J Natl Cancer Inst 2010-12-15 [PMID: 21088277] (WB, Mouse, Human)

Hu, X et al. Elucidation of the function of type 1 human methionine aminopeptidase during cell cycle progression. Proc Natl Acad Sci U S A;103(48):18148-53. 2006-11-28 [PMID: 17114291]



Procedures

Western Blot protocol for 14-3-3 gamma Antibody (NB100-407)

14-3-3 gamma Antibody (HS23):

1. Load protein on gel (ie: ~30 ug of HeLa whole cell control lysate) and run.
2. Transfer protein to nitrocellulose (Schleicher&Schuell, cat# BA83).
3. Block the membrane with 5% milk for 30 minutes at room temperature.
4. Incubate the membrane with anti-14-3-3 gamma [cat# NB 100-407] (1:1,000), overnight at 4C or 2 h at room temperature. Milk or PBS-T are good for this dilution.
5. Wash the membrane 3 times, 10 minutes per wash in PBS with 0.1% Tween-20 (PBS-T).
6. Incubate with secondary antibody for 30 minutes at room temperature. Use milk in PBS-T as a diluent.
7. Rinse the membrane 2 times with deionized water and place in an ECL working solution.
8. Expose to the film.





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Products Related to NB100-407

NB800-PC1	HeLa Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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.

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