Product Datasheet

DYKDDDDK Epitope Tag Antibody (L5)
NBP1-06712SS

Unit Size: 0.125 ml

Store at 4C. Do not freeze.

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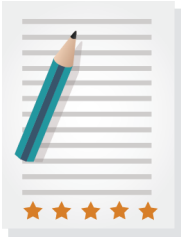
Updated 10/23/2024 v.20.1



NBP1-06712SS

DYKDDDDK Epitope Tag Antibody (L5)

Product Information

Unit Size	0.125 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	L5
Preservative	0.1% Sodium Azide
Isotype	IgG2a
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant
Target Molecular Weight	1.01 kDa

Product Description

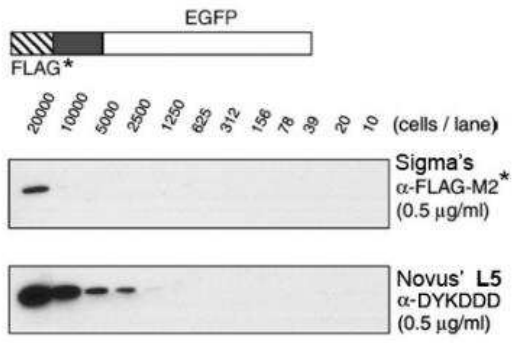
Host	Rat
Species	Epitope Tag
Specificity/Sensitivity	Binds to same epitope as Sigma's Anti-FLAGM2 Antibody. FLAG is a registered trademark of Sigma-Aldrich Biotechnology LP and Sigma-Aldrich Co.
Immunogen	DYKDDDDK Epitope Tag Antibody (L5) was made to N-terminal DYKDDDDK-tagged extracellular domain of mouse Langerin. Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody.

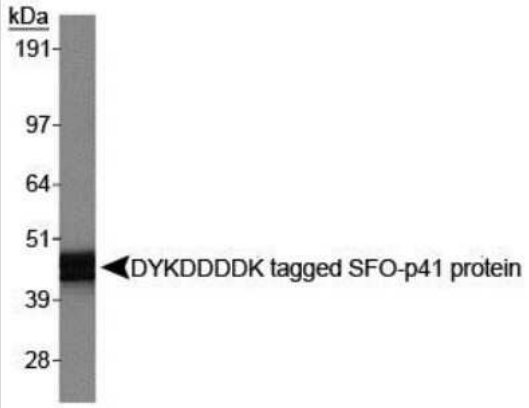
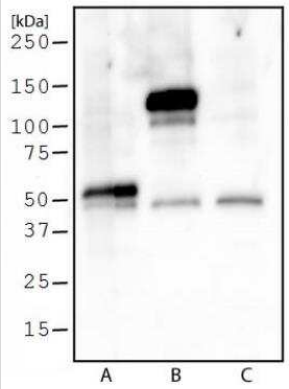
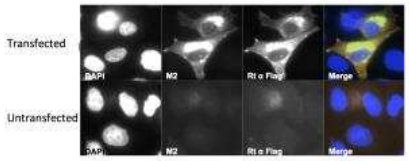
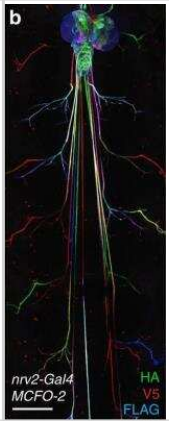
Product Application Details

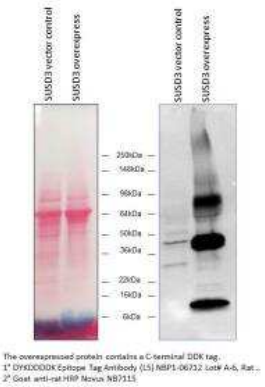
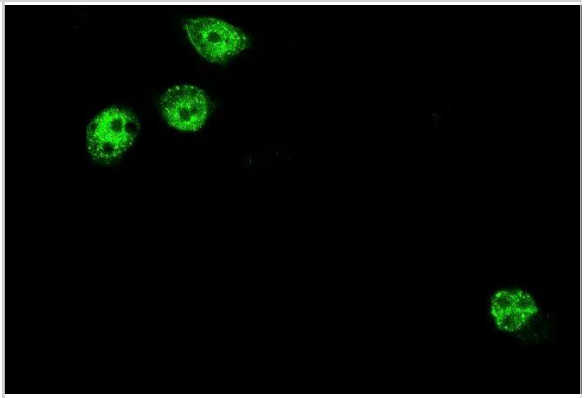
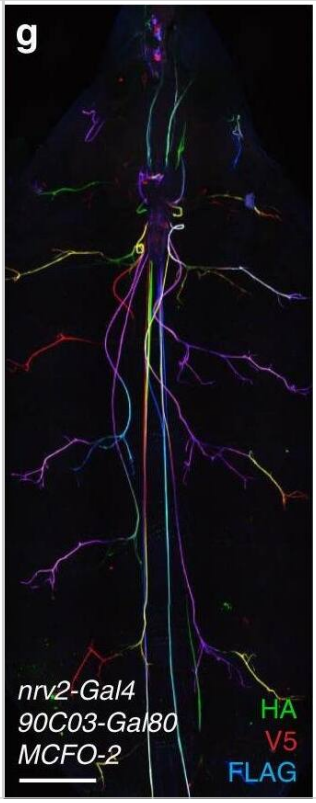
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000. Use reported in multiple pieces of scientific literature, Immunohistochemistry 1:50-1:100. Use reported in multiple pieces of scientific literature, Immunocytochemistry/ Immunofluorescence 1:10-1:100. Use reported in multiple pieces of scientific literature, Immunoprecipitation reported in multiple pieces of scientific literature, Immunohistochemistry-Frozen reported in scientific literature (PMID 24454782)

Images

Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged protein demonstrating that the rat monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] is 10-15 fold more sensitive than Sigma's M2 mouse ANTI-FLAG M2 antibody.



Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged SFO-p41 protein with DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Observed molecular weight ~46.	
Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged AIFm2 protein (A), DYKDDDDK tagged IREB2 protein (B), and vector control (C) using DYKDDDDK epitope tag antibody (L5) [NBP1-06712] at 2 ug/ml.	
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of HeLa cells transfected with a FLAG encoded construct (top) or untransfected (bottom), using DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Image from verified customer review.	
Immunohistochemistry: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Third instar larva of the genotype [hs-Flp; nrv2-Gal4/MCFO-2]. flp expression of the multicolor FlpOut construct was induced by 1 h 37C heat shock during first instar stage. Larvae were stained for HA (green), V5 (red), and FLAG (blue). Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/32901033/) licensed under a CC-BY license.	

Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Detection of DDK in SUSD3 overexpression lysate using [NBP1-06712] followed by goat anti-rat IgG HRP conjugated secondary antibody (cat.# NB7115). Image from verified customer review.	
Immunocytochemistry/Immunofluorescence: Rat Monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis using DyLight 488 conjugated antibody (NBP1-06712G). Normal mouse prostate cells overexpressed with Flag-tagged construct (Green: Flag). Image from verified customer review.	
Immunohistochemistry: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Generation of a wrapping glia driver.Confocal projection of larval filet preparations of the genotypes indicated. Representative images are shown taken from >10 animals analyzed for each genotype. a Third instar larva with the genotype [nrv2-stGFP]. Broad GFP expression is detected in the CNS. Note the restricted expression in the peripheral nervous system which corresponds to the wrapping glia (arrowheads). b Third instar larva of the genotype [hs-Flp; nrv2-Gal4/MCFO-2]. flp expression of the multicolor FlpOut construct was induced by 1 h 37 °C heat shock during first instar stage. Larvae were stained for HA (green), V5 (red), & FLAG (blue). c Same animal as in (a). Expression of stRed is observed only in the CNS & no expression is found in the wrapping glia. d–f Overlay of nrv2-GFP (green) & 90C03 > dsRed (red) expression. Note the complete overlap of dsRed (e) & GFP expression in the CNS (f). g Young third instar larva with the genotype [hs-Flp; nrv2-Gal4/MCFO-2; 90C03-Gal80]. flp expression was induced by 1 h 37 °C heat shock during first instar stage. Larvae were stained for HA (green), V5 (red), & FLAG (blue). h Living third instar larva of the genotype [nrv2-Gal4, UAS-CD8GFP; 90C03-Gal80/90C03-Gal80]. Note strong expression at the anterior tip of the larva. Scale bars are 250 µm (a–c, g, h) & 100 µm (d–f). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32901033), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Mamiya A, Gurung P, Tuthill JC., et Al. Neural Coding of Leg Proprioception in Drosophila Neuron 2018-10-09 [PMID: 30293823]

Wu R, Ye Y, Dong D, Zhang Z et Al. Disruption of nuclear speckle integrity dysregulates RNA splicing in C9ORF72-FTD/ALS Neuron 2024-08-24 [PMID: 39181135]

Aymanns F, Chen CL, Ramdya P., et Al. Descending neuron population dynamics during odor-evoked and spontaneous limb-dependent behaviors Elife 2022-10-26 [PMID: 36286408]

Scott RL, Diao F, Silva V, Park S et Al. Non-canonical Eclosion Hormone-Expressing Cells Regulate Drosophila Ecdysis iScience 2020-05-15 [PMID: 32408174]

Malin JA, Chen YC, Simon F, Keefer E et Al. Spatial patterning controls neuron numbers in the Drosophila visual system Dev Cell 2024-03-26 [PMID: 38531357]

Chen YD, Chen YC, Rajesh R, Shoji N et Al. Using single-cell RNA sequencing to generate predictive cell-type-specific split-GAL4 reagents throughout development Proc Natl Acad Sci U S A 2023-07-31 [PMID: 37523539]

Li Z, Chen S, Li S, Chao H et Al. Nucleolar protein PEXF controls ribosomal RNA synthesis and pluripotency exit Dev Cell 2024-12-27 [PMID: 39729985]

Lamb R, Dhar B, Cherra SJ 3rd., et Al. PXF-1 promotes synapse development at the neuromuscular junction in Caenorhabditis elegans Front Mol Neurosci 2022-10-31 [PMID: 36311020]

Donovan EJ, Agrawal A, Liberman N, Kalai JI et Al. Dendrite architecture determines mitochondrial distribution patterns in vivo Cell Rep 2024-05-08 [PMID: 38717903]

Diamandi JA, Duckhorn JC, Miller KE et Al. Developmental remodeling repurposes larval neurons for sexual behaviors in adult Drosophila Curr Biol 2024-03-28 [PMID: 38377996]

Parkhurst SJ, Adhikari P, Navarrete JS et Al. Perineurial Barrier Glia Physically Respond to Alcohol in an Akap200-Dependent Manner to Promote Tolerance Cell Rep 2018-02-16 [PMID: 29444420]

Miyazaki Y, Otsuka T, Yamagata Y et Al. Oligodendrocyte-derived LGI3 and its receptor ADAM23 organize juxtaparanodal Kv1 channel clustering for short-term synaptic plasticity Cell Rep 2024-01-08 [PMID: 38194969]

More publications at http://www.novusbio.com/NBP1-06712

Procedures

Western Blot protocol for DYKDDDDK Epitope Tag Antibody (NBP1-06712)

Western Blot Protocol
1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 5 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rat anti-DYKDDDDK primary antibody (NBP1-06712) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 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 (Pierce ECL).
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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