

Product Datasheet

DYKDDDDK Epitope Tag Antibody (L5) NBP1-06712

Unit Size: 0.5 ml

Store at 4C. Do not freeze.

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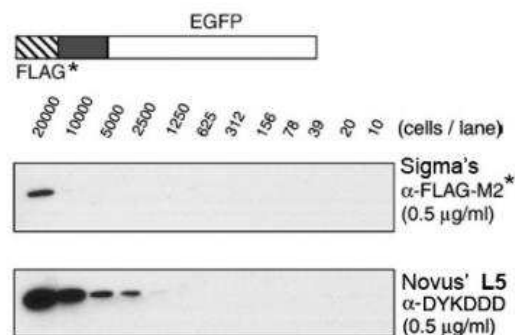
NBP1-06712**DYKDDDDK Epitope Tag Antibody (L5)**

Product Information	
Unit Size	0.5 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	
Description	Novus Biologicals Rat DYKDDDDK Epitope Tag Antibody (L5) - BSA Free (NBP1-06712) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-DYKDDDDK Epitope Tag Antibody: Cited in 144 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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)

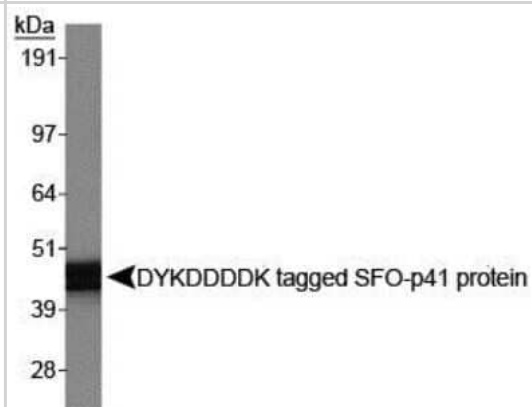


Images

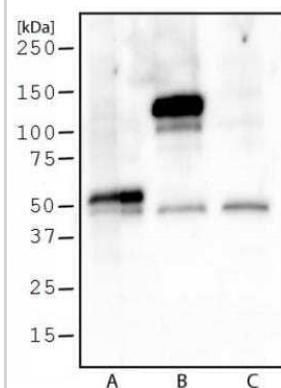
Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged protein demonstrating that the rat monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] is 10-15 fold more sensitive than Sigma's M2 mouse ANTI-FLAG M2 antibody.



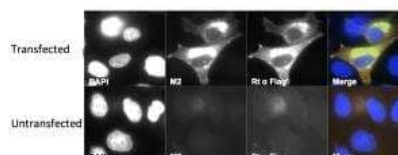
Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged SFO-p41 protein with DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Observed molecular weight ~46.



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.



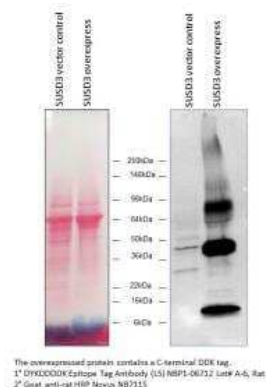
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of HeLa cells transfected with a FLAG encoded construct (top) or untransfected (bottom), using DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Image from verified customer review.



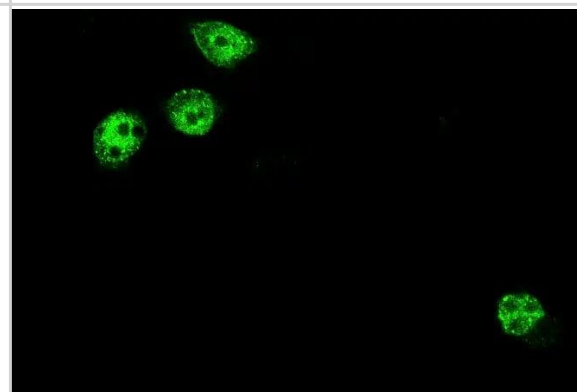
Immunohistochemistry: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Third instar larva of the genotype [hs-Flp; nrv2-Gal4/MCFO-2]. flp expression of the multicolor FlpOut construct was induced by 1 h 37°C heat shock during first instar stage. Larvae were stained for HA (green), V5 (red), and FLAG (blue). Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/32901033/](https://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.

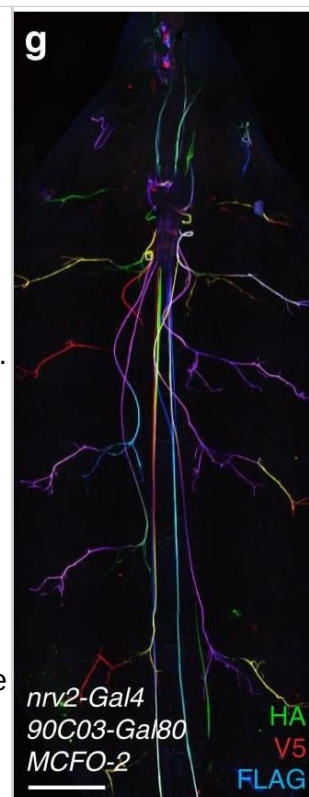


Immunocytochemistry/Immunofluorescence: Rat Monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis using DyLight 488 conjugated antibody (NBP1-06712G). Normal mouse prostate cells overexpressed with Flag-tagged construct (Green: Flag). Image from verified customer review.



Immunohistochemistry: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Generation of a wrapping glia driver. Confocal projection of larval file 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 μ m (a–c, g, h) & 100 μ m (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

Vijayan V, Wang F, Wang K et al. A rise-to-threshold process for a relative-value decision Nature 2023-07-20 [PMID: 37407812] (Western Blot)

Sizemore TR, Jonaitis J, Dacks AM. Heterogeneous receptor expression underlies non-uniform peptidergic modulation of olfaction in Drosophila Nature Communications 2023-08-30 [PMID: 37644052] (Western Blot)

Yadav S, Pant D, Samaiya A et al. ERK1/2-EGR1-SRSF10 Axis Mediated Alternative Splicing Plays a Critical Role in Head and Neck Cancer Frontiers in Cell and Developmental Biology 2021-09-20 [PMID: 34616729] (Western Blot)

Ribeiro IMA, Ebner W, Kutlesa R, Borst A. Spatial and temporal control of expression with light-gated LOV-LexA G3 Genes|Genomes|Genetics 2022-09-30 [PMID: 35876796] (Western Blot)

Kind E, Longden KD, Nern A et al. Synaptic targets of photoreceptors specialized to detect color and skylight polarization in Drosophila eLife 2021-12-16 [PMID: 34913436] (Western Blot)

Qian Y, Li J, Zhao S et al. Programmable RNA sensing for cell monitoring and manipulation Nature 2022-10-27 [PMID: 36198803] (Western Blot)

Lee KM, Linskens AM, Doe CQ Hunchback activates Bicoid in Pair1 neurons to regulate synapse number and locomotor circuit function Current biology : CB 2022-04-29 [PMID: 35512697] (Western Blot)

Laturney M, Sterne GR, Scott K. Mating activates neuroendocrine pathways signaling hunger in Drosophila females eLife 2023-05-15 [PMID: 37184218] (Western Blot)

Ishii K, Cortese M, Leng X et al. A neurogenetic mechanism of experience-dependent suppression of aggression Science Advances 2022-09-09 [PMID: 36070378] (Western Blot)

Davla S, Artiushin G, Li Y et al. AANAT1 functions in astrocytes to regulate sleep homeostasis eLife 2020-09-21 [PMID: 32955431] (Western Blot)

Dolan MJ, Belliard-Guérin G, Bates AS et al. Communication from Learned to Innate Olfactory Processing Centers Is Required for Memory Retrieval in Drosophila Neuron 2018-11-07 [PMID: 30244885] (Western Blot)

Certel SJ, Ruchti E, McCabe BD, Stowers RS. A conditional glutamatergic synaptic vesicle marker for Drosophila G3 Genes|Genomes|Genetics 2022-03-04 [PMID: 35100385] (Western Blot)

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% NFD_M + 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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Products Related to NBP1-06712

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
NBP1-06712B-0.1ml	DYKDDDDK Epitope Tag Antibody (L5) [Biotin]

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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