

# Product Datasheet

## DYKDDDDK Epitope Tag Antibody (L5) - BSA Free NBP1-06712

Unit Size: 0.5 ml

Store at 4C. Do not freeze.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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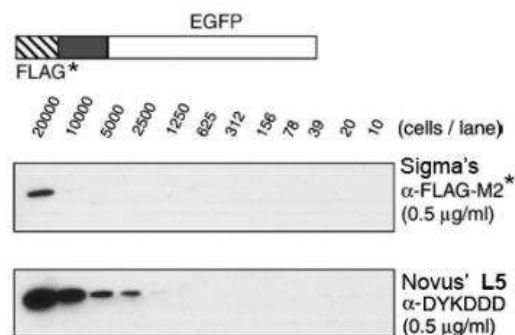
**NBP1-06712**

DYKDDDDK Epitope Tag Antibody (L5) - BSA Free

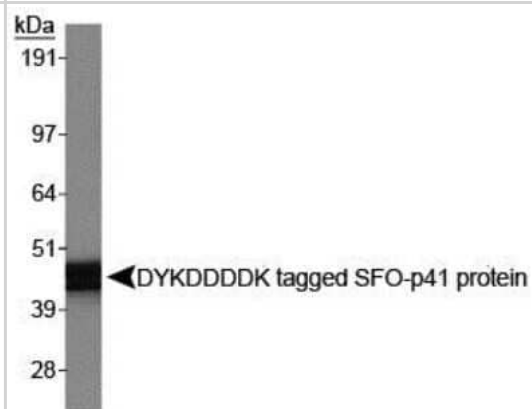
<b>Product Information</b>	
<b>Unit Size</b>	0.5 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	L5
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Tissue culture supernatant
<b>Buffer</b>	Tissue culture supernatant
<b>Target Molecular Weight</b>	1.01 kDa
<b>Product Description</b>	
<b>Description</b>	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.
<b>Host</b>	Rat
<b>Species</b>	Epitope Tag
<b>Specificity/Sensitivity</b>	Binds to same epitope as Sigma's Anti-FLAGM2 Antibody. FLAG is a registered trademark of Sigma-Aldrich Biotechnology LP and Sigma-Aldrich Co.
<b>Immunogen</b>	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.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	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

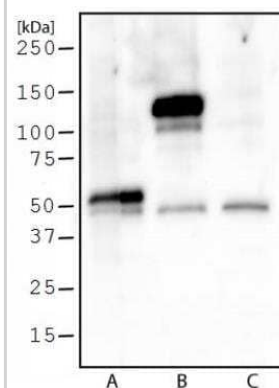
Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged protein demonstrating that the rat monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] is 10-15 fold more sensitive than Sigma's M2 mouse ANTI-FLAG M2 antibody.



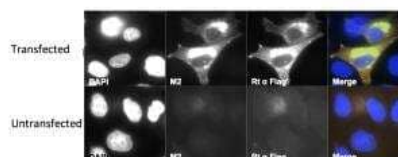
Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of DYKDDDDK tagged SFO-p41 protein with DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Observed molecular weight ~46.



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 µg/ml.



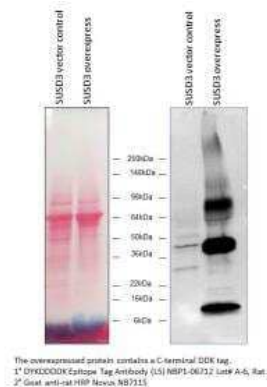
Immunocytochemistry/Immunofluorescence: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712] - Analysis of HeLa cells transfected with a FLAG encoded construct (top) or untransfected (bottom), using DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]. Image from verified customer review.



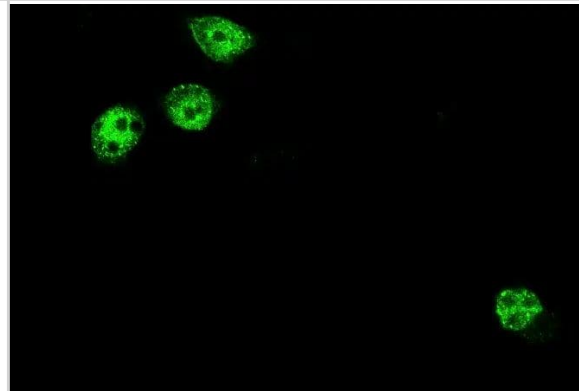
**Immunohistochemistry: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]** - Third instar larva of the genotype [hs-Flp; nrv2-Gal4/MCFO-2]. flp expression of the multicolor FlpOut construct was induced by 1 h 37C heat shock during first instar stage. Larvae were stained for HA (green), V5 (red), and FLAG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



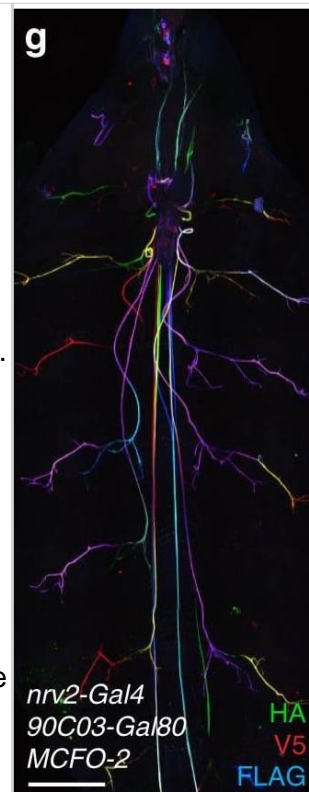
**Western Blot: DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712]** - Detection of DDK in SUSD3 overexpression lysate using [NBP1-06712] followed by goat anti-rat IgG HRP conjugated secondary antibody (cat.# NB7115). Image from verified customer review.



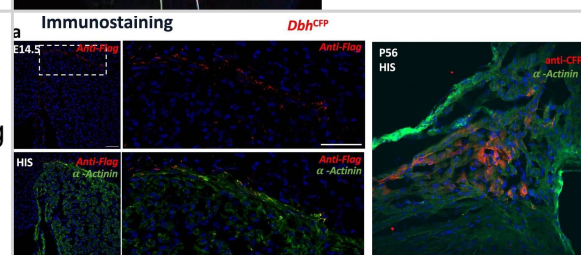
**Immunocytochemistry/Immunofluorescence: Rat Monoclonal DYKDDDDK Epitope Tag Antibody (L5) [NBP1-06712G]** - Analysis using DyLight 488 conjugated antibody (NBP1-06712G). Normal mouse prostate cells overexpressed with Flag-tagged construct (Green: Flag). Image from verified customer review.



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  $\mu$ m (a–c, g, h) & 100  $\mu$ 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.



Validation of spatial distribution of Dbh+CMs and their close association with CCS. a Representative images of immunostaining with anti-Flag (red) and anti-CFP (red), plus  $\alpha$ -actinin (green) antibodies showing the expression of Dbh+CMs in HIS region at E14.5 and adult (P56) by using DbhCFP reporter. b Representative images in AVN and HIS with  $\alpha$ -actinin (green) immunostaining showing the expression pattern of Dbh+CMs by using DbhCreERT/Rosa26-tdTomato inducible reporter at P56. c Representative images showing co-localization of Dbh+-derived CMs and Cx40+ cells in PKJ network in both left and right ventricle in DbhCre/ChR2-tdTomato/Cx40-eGFP neonatal mouse hearts. Scale bar: 50  $\mu$ m n = 3 hearts/slices for each stage. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38016975>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Zhao A, Gruntman E, Nern A et al. Eye structure shapes neuron function in *Drosophila* motion vision *Nature* 2025-07-23 [PMID: 40702177]

Valentino P, Islam I, Arain U et al. Concurrent temporal patterning of neural stem cells in the fly visual system *Nature Communications* 2025-09-25 [PMID: 40998808]

Pant D, Kakani P, Joshi R et al. Interplay of YEATS2 and GCDH regulates histone crotonylation and drives EMT in head and neck cancer *eLife* 2025-08-14 [PMID: 40810390]

Pollington H, Doe C The Hunchback transcription factor determines interneuron molecular identity, morphology, and presynapse targeting in the *Drosophila* NB5-2 lineage. *PLoS Biology* 2025-04-11 [PMID: 40163536]

Turiello R, Ng S, Tan E et al. NKG7 is a Stable Marker of Cytotoxicity Across Immune Contexts and Within the Tumor Microenvironment. *European journal of immunology* 2025-06-24 [PMID: 40538191]

Hoagland A, Schultz R, Cai Z et al. Behavioral resilience via dynamic circuit firing homeostasis. *Proceedings of the National Academy of Sciences of the United States of America* 2025-04-29 [PMID: 40299703]

Meissner G, Vannan A, Jeter J et al. A split-GAL4 driver line resource for *Drosophila* neuron types *eLife* 2025-01-24 [PMID: 39854223]

Kamel R, Bourcier A, Margaria J et al. Cardiac Gene Therapy With Phosphodiesterase 2A Limits Remodeling and Arrhythmias in Mouse Models of Heart Failure *Journal of the American Heart Association: Cardiovascular and Cerebrovascular Disease* 2025-02-03 [PMID: 39895533]

Gu F, Naghavi M Negative interplay between HIV-1 Gag and amyloid precursor protein centers around competition for VPS4A and TSG101 *Proceedings of the National Academy of Sciences of the United States of America* 2025-08-21 [PMID: 40838881]

Fisher K, Lai S, Doe C Imp and Chinmo are required for embryonic motor neuron axon and dendrite targeting. *Biology Open* 2025-07-29 [PMID: 40720095]

Takagi S, Takano S, Kubo T et al. Segment-specific axon guidance by Wnt/Fz signaling diversifies motor commands in *Drosophila* larvae *eLife* 2025-09-25 [PMID: 40996811]

Shuai Y, Sammons M, Sterne G et al. Driver lines for studying associative learning in *Drosophila* *eLife* 2025-01-29 [PMID: 39879130]

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 dH<sub>2</sub>O 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<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
  6. Rinse the membrane in dH<sub>2</sub>O 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 dH<sub>2</sub>O 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.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-06712**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)

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### **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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