

Product Datasheet

OLLAS Epitope Tag Antibody (L2) - BSA Free NBP1-06713

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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NBP1-06713

OLLAS Epitope Tag Antibody (L2) - BSA Free

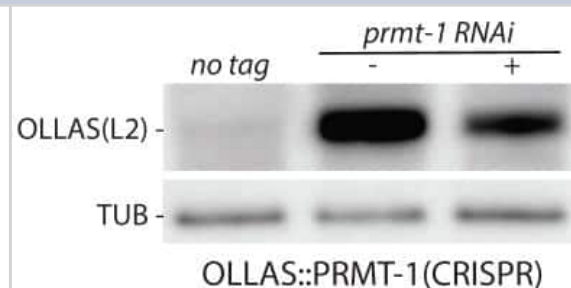
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	L2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rat
Species	Epitope Tag
Immunogen	OLLAS (SGFANELGPRLMGK)-tagged extracellular domain of mouse Langerin

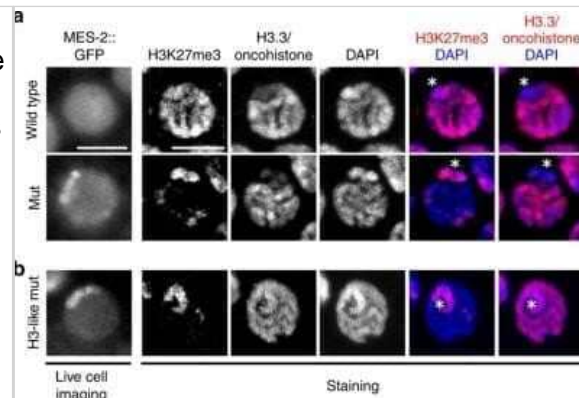
Product Application Details	
Applications	Western Blot, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation Sequencing, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 1:500 - 1:1000, Immunohistochemistry 1:10 - 1:100, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen 1:10 - 1:100, Immunoblotting reported in scientific literature (PMID 27600537), Immunohistochemistry Whole-Mount, Chromatin Immunoprecipitation Sequencing reported in scientific literature (PMID 31175278)

Images

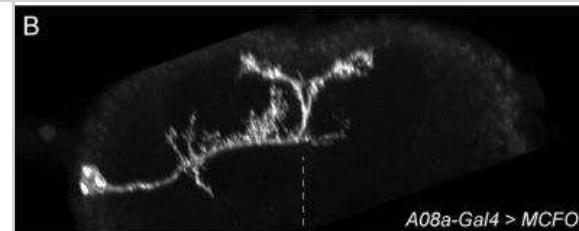
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - *C. elegans* whole nematode. OLLAS::PRMT-1 Western Blot using NBP1-06713SS (1:1000). Western blot image submitted by a verified customer review.



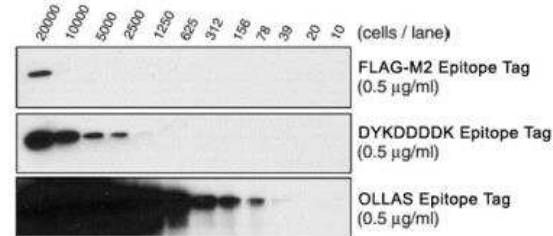
Immunocytochemistry/Immunofluorescence: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Oncohistone incorporation patterns induce changes in nuclear PRC2 distribution and sterility phenotypes. Live cell imaging of GFP-tagged MES-2/EZH2 (the catalytic subunit of *C. elegans* PRC2), and immunofluorescence of H3K27me3 and H3.3/oncohistone (tagged with OLLAS Epitope Tag) in pachytene nuclei of H3-like K27M oncohistone (H3-like mut) worms. Scale bars represent 5 μ m. Chromosome X was identified by depletion of H3.3 and H3K4me3 staining shown in Supplementary Fig. 3, and is marked with an asterisk. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-019-10404-9>) licensed under a CC-BY license Image using the Biotin format of this antibody.



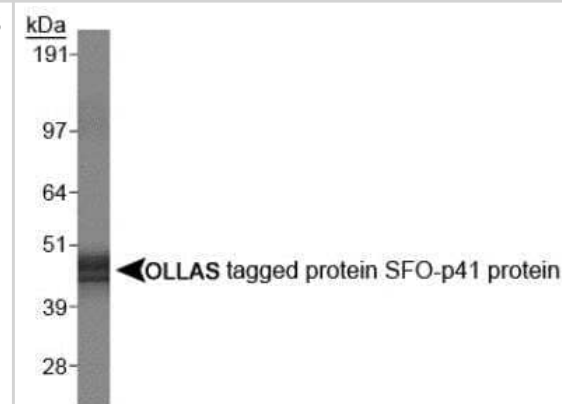
Immunohistochemistry: OLLAS Epitope Tag Antibody (L2) - BSA Free [NBP1-06713] - The A08a neuron receives arbor-specific synaptic inputs. Posterior view of a single A08a labeled by MultiColor FlipOut (MCFO), visualized by A08a-Gal4 > UAS-MCFO. Image using the DyLight 650 form of this antibody (NBP1-06713C). Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31012844/>) licensed under a CC-BY license.



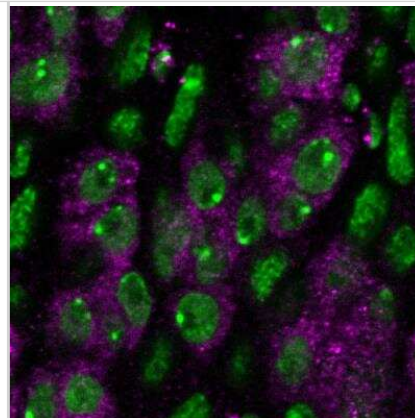
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Comparison of binding sensitivity of Novus Biologicals' monoclonal antibodies to OLLAS (NBP1-06713), DYKDDDDK (NBP1-06712) and the FLAG-M2 monoclonal antibody from Sigma-Aldrich. FLAG (TM) and ANTI-FLAG (TM) are registered trademarks of Sigma-Aldrich Biotechnology LP and Sigma-Aldrich Co.



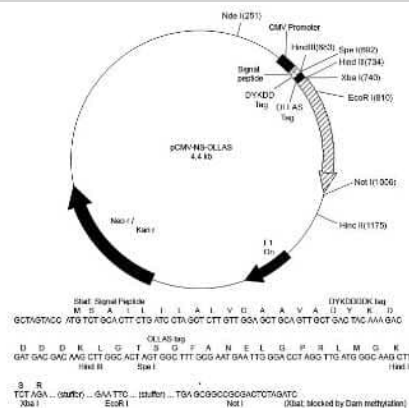
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - OLLAS tagged SFO-p41 protein.



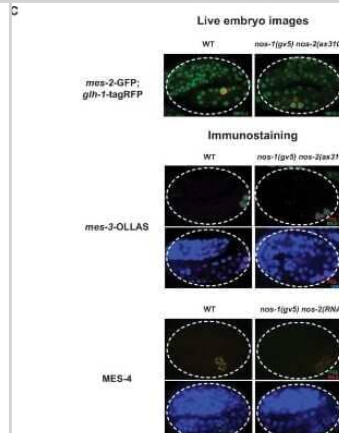
Immunohistochemistry Whole-Mount: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - *Drosophila* adult midgut expressing an OLLAS-tagged protein stained with OLLAS Epitope Tag Antibody (magenta). Nuclei are shown in green. IHC image submitted by a verified customer review.



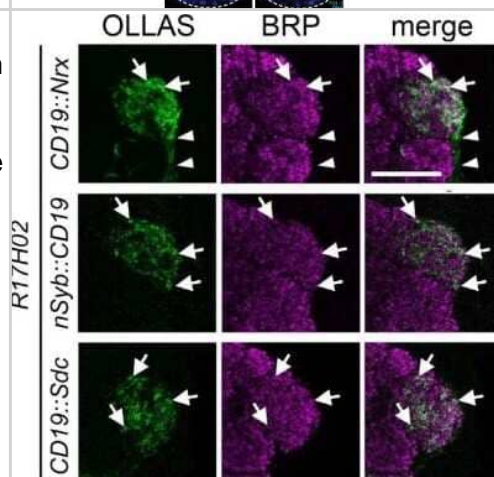
Immunohistochemistry-Frozen: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Vector Map of pCMV-SD OLLAS



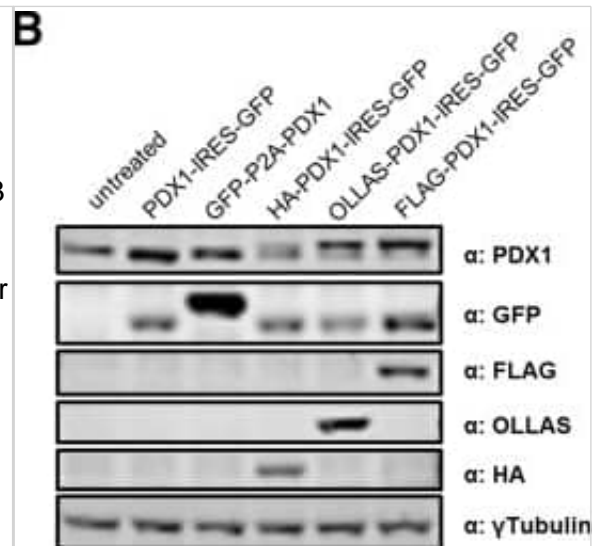
Immunohistochemistry-Paraffin: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - MES proteins are expressed in *nos-1nos-2* embryonic PGCs. Transcriptome comparison between PGCs isolated from wild-type and *mes-2(RNAi)* L1 larvae. Top: Photomicrograph of live embryo expressing GFP tagged MES-2 in wild-type and *nos-1(gv5)nos-2(ax3103)* embryos. Middle: Photomicrograph of fixed wild-type and *nos-1(gv5)nos-2(ax3103)* embryos expressing OLLAS tagged MES-3. Bottom: Photomicrograph of fixed wild-type and *nos-1(gv5)nos-2(RNAi)* embryos stained with alpha-MES-4 antibody and K76 alpha-PGL-1 antibody. Images of 2-fold+ stage embryos were taken. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/30201>), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Different intracellular and transmembrane domains (from *Nrx*, *nSyb*, and *sdC*) were fused to CD19 and expressed into ORNs targeting the DA1 glomerulus using the CD19::*Nrx* (top), *nSyb*::CD19 (middle) and CD19::*Sdc* (bottom), with the R17H02 driver (in green). The brain samples were co-immunostained with antibodies against the OLLAS tag (present in ligand) & against the pre-synaptic protein, BRP (in magenta). The ligand proteins are co-localized with or adjacent to BRP (arrows), demonstrating that all ligands are enriched at the presynaptic terminals of the ORNs; CD19::*Nrx* was also expressed at strong levels in the axon shaft outside of the glomerulus (arrowheads in top panels). Scale bar = 20 μ m. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/32027>), licensed under a CC-BY license.



Western Blot: OLLAS Epitope Tag Antibody (L2) - BSA Free [NBP1-06713] - Utilization of pMVP for the creation of unique PDX1 vectors. pENTR plasmids containing cDNA for human PDX1 with or without a stop codon (i.e. open) were recombined with pMVP components to generate an assortment of PDX1-expressing (A) adenovirus & (C) expression plasmid vectors. (B) Immunoblot analysis of INS1 832/13 cell lysates harvested 48h after treatment with crude adenovirus lysates. For the epitope tagged conditions, note the appearance of the endogenous (lower) & overexpressed (upper) PDX1 bands (top blot). For eGFP blot, the use of P2A adds 23 amino acids to the N-terminal protein (i.e. eGFP). Immunoblot analysis of HEK293 cell lysates 24 h after transfection of expression vectors encoding PDX1 with C-terminal (D) epitope tags, (E) eGFP reporter or fusion, (G) & mCherry reporter or fusion. (F, H) Fluorescence microscopy of the eGFP & mCherry containing conditions analyzed in panels E & G. Visible bands resulting from 'Uncleaved' P2A products (red circle •) & degradation products (*) are labeled. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30590691>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wenda JM, Prosser RF, Gabus C, Steiner FA. Mitotic chromosome condensation requires phosphorylation of the centromeric protein KNL-2 in *C. elegans* *Journal of Cell Science* 2021-12-01 [PMID: 34734636]

Geng S, Hamaji T, Ferris P et al. A conserved RWP-RK transcription factor VSR1 controls gametic differentiation in volvocine algae *bioRxiv* 2023-03-27

Lea WA, Winklhofer T, Zelenchuk L et al. Polycystin-1 Interacting Protein-1 (CU062) Interacts with the Ectodomain of Polycystin-1 (PC1) *Cells* 2023-08-29 [PMID: 37681898] (Immunoprecipitation, Western Blot)

Zhifei Zhang, Haiyan Yang, Lei Fang, Guangrong Zhao, Jun Xiang, Jialin C. Zheng, Zhao Qin DOS-3 mediates cell-non-autonomous DAF-16/FOXO activity in antagonizing age-related loss of *C. elegans* germline stem/progenitor cells *Nature Communications* 2024-06-08 [PMID: 38851828]

Niklas Simon, Abu Safyan, George Pyrowolakis, Shinya Matsuda, Erika A Bach, Utpal Banerjee Dally is not essential for Dpp spreading or internalization but for Dpp stability by antagonizing Tkv-mediated Dpp internalization *eLife* 2024-01-24 [PMID: 38265865]

Piero Sanfilippo, Alexander J Kim, Anuradha Bhukel, Juyoun Yoo, Pegah S Mirshahidi, Vijaya Pandey, Harry Bevir, Ashley Yuen, Parmis S Mirshahidi, Peiyi Guo, Hong-Sheng Li, James A Wohlschlegel, Yoshinori Aso, S Lawrence Zipursky Mapping of multiple neurotransmitter receptor subtypes and distinct protein complexes to the connectome. *Neuron* 2024-01-13 [PMID: 38262414]

Sa Geng, Takashi Hamaji, Patrick J Ferris, Minglu Gao, Yoshiki Nishimura, James Umen A conserved RWP-RK transcription factor VSR1 controls gametic differentiation in volvocine algae. *Proceedings of the National Academy of Sciences of the United States of America* 2023-07-14 [PMID: 37436957]

Rudra Prasanna Banerjee, Martin Srayko Sperm-specific glycogen synthase kinase 3 is required for sperm motility and the post-fertilization signal for female meiosis II in *Caenorhabditis elegans*. *Development (Cambridge, England)* 2022-06-02 [PMID: 35635101]

Simon N, Safyan A, Pyrowolakis G, Matsuda S Dally is not essential for Dpp spreading or internalization but for Dpp stability by antagonizing Tkv-mediated Dpp internalization *bioRxiv* 2023-03-22 (MS)

Schwartz I, Vunjak M, Budroni V et al. SPOP targets the immune transcription factor IRF1 for proteasomal degradation *eLife* 2023-08-25 [PMID: 37622993] (WB)

Fernando LM, Quesada-Candela C, Murray M et al. Proteasomal subunit depletions differentially affect germline integrity in *C. elegans* *Frontiers in Cell and Developmental Biology* 2022-08-17 [PMID: 36060813] (Immunocytochemistry/ Immunofluorescence)

Monaghan RM, Barnes RG, Fisher K et al. A nuclear role for the respiratory enzyme CLK-1 in regulating mitochondrial stress responses and longevity *Nature Cell Biology* 2015-06-01 [PMID: 25961505]

More publications at <http://www.novusbio.com/NBP1-06713>



Procedures

Western Blot protocol for OLLAS Epitope Tag Antibody (NBP1-06713)

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 primary antibody (NBP1-06713) 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. Dilute the appropriate 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 NBP1-06713

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43322-0.5mg	Rat IgG1 Kappa Light Chain Isotype Control (RG1)
NBP1-06713B	OLLAS Epitope Tag Antibody (L2) [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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