

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

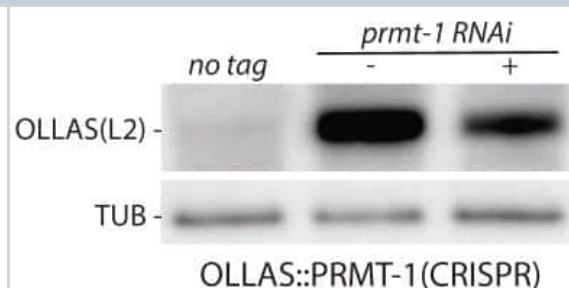
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	L2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rat OLLAS Epitope Tag Antibody (L2) - BSA Free (NBP1-06713) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF, IP and ChIP. Anti-OLLAS Epitope Tag Antibody: Cited in 45 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Species	Epitope Tag
Immunogen	OLLAS (SGFANELGPRLMGK)-tagged extracellular domain of mouse Langerin

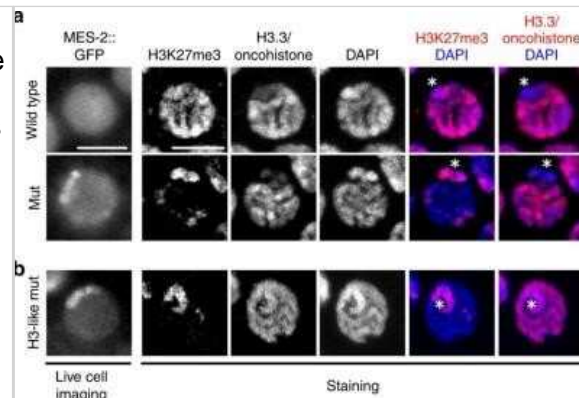
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation Sequencing, Immunohistochemistry Whole-Mount
Recommended 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

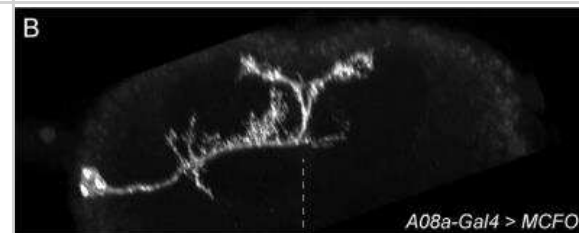
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - *C. elegans* whole nematode. OLLAS::PRMT-1 Western Blot using NBP1-06713SS (1:1000). Western blot image submitted by a verified customer review.



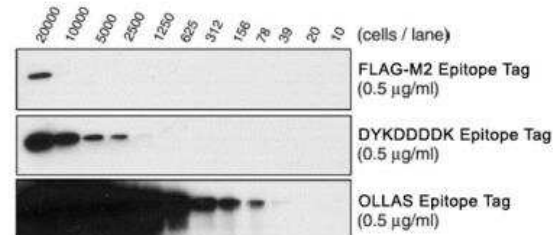
Immunocytochemistry/Immunofluorescence: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Oncohistone incorporation patterns induce changes in nuclear PRC2 distribution and sterility phenotypes. Live cell imaging of GFP-tagged MES-2/EZH2 (the catalytic subunit of *C. elegans* PRC2), and immunofluorescence 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.



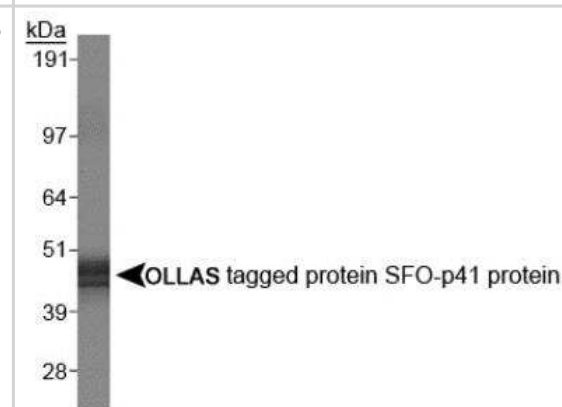
Immunohistochemistry: OLLAS Epitope Tag Antibody (L2) - BSA Free [NBP1-06713] - The A08a neuron receives arbor-specific synaptic inputs. Posterior view of a single A08a labeled by MultiColor FlipOut (MCFO), visualized by A08a-Gal4 > UAS-MCFO. Image using the DyLight 650 form of this antibody (NBP1-06713C).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



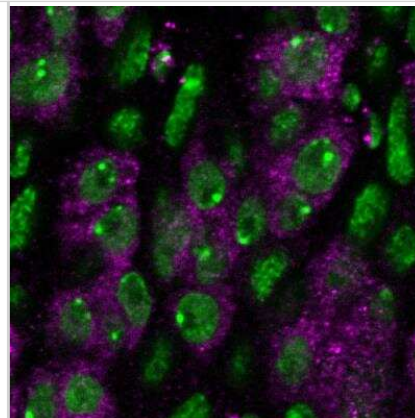
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Comparison of binding sensitivity of Novus Biologicals' monoclonal antibodies to OLLAS (NBP1-06713), DYKDDDDK (NBP1-06712) and the FLAG-M2 monoclonal antibody from Sigma-Aldrich. FLAG (TM) and ANTI-FLAG (TM) are registered trademarks of Sigma-Aldrich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



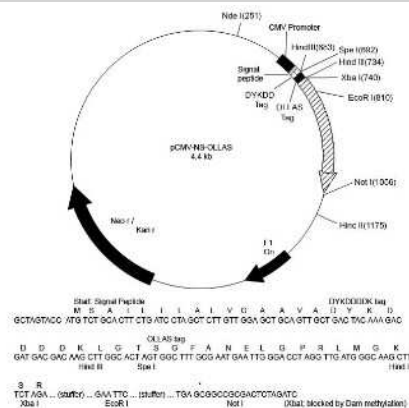
Western Blot: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - OLLAS tagged SFO-p41 protein.



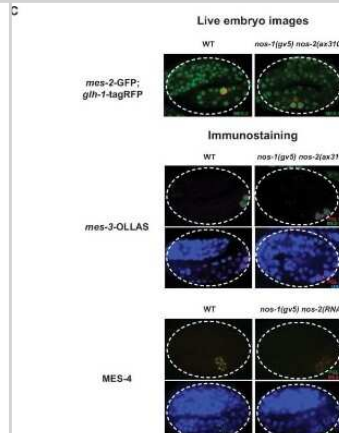
Immunohistochemistry Whole-Mount: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - *Drosophila* adult midgut expressing an OLLAS-tagged protein stained with OLLAS Epitope Tag Antibody (magenta). Nuclei are shown in green. IHC image submitted by a verified customer review.



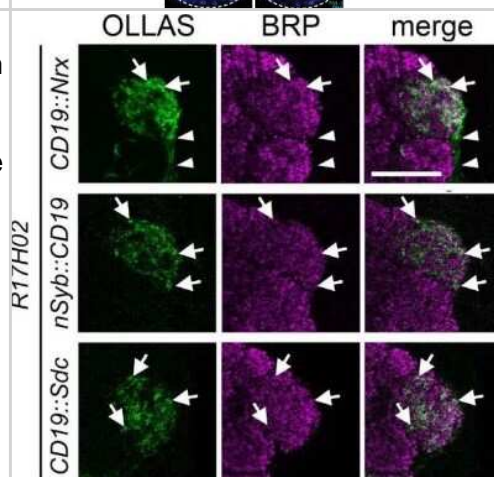
Immunohistochemistry-Frozen: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Vector Map of pCMV-SD OLLAS



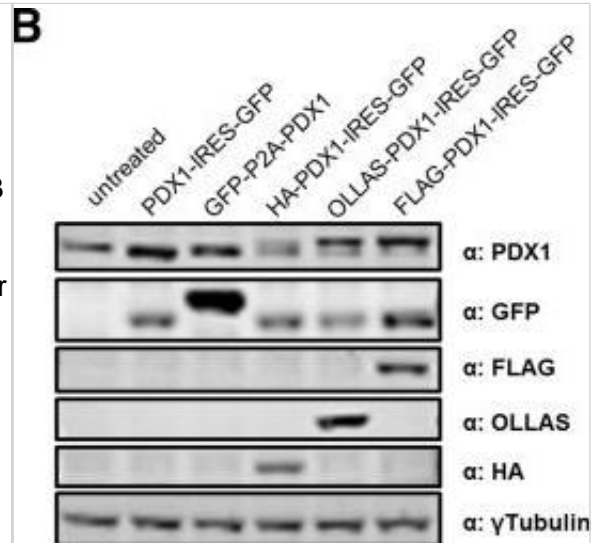
Immunohistochemistry-Paraffin: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - MES proteins are expressed in *nos-1nos-2* embryonic PGCs. Transcriptome comparison between PGCs isolated from wild-type and *mes-2(RNAi)* L1 larvae. Top: Photomicrograph of live embryo expressing GFP tagged MES-2 in wild-type 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.



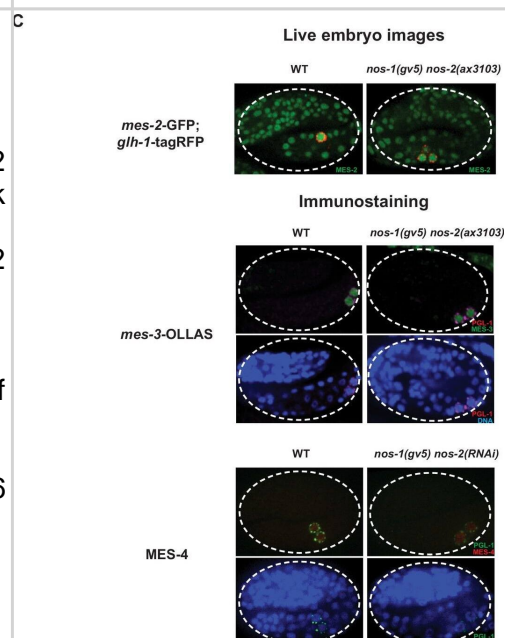
Immunohistochemistry-Paraffin: OLLAS Epitope Tag Antibody (L2) [NBP1-06713] - Different intracellular and transmembrane domains (from *Nrx*, *nSyb*, and *sdc*) were fused to CD19 and expressed into ORNs targeting the DA1 glomerulus using the CD19::*Nrx* (top), *nSyb*::CD19 (middle) and CD19::*Sdc* (bottom), 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.



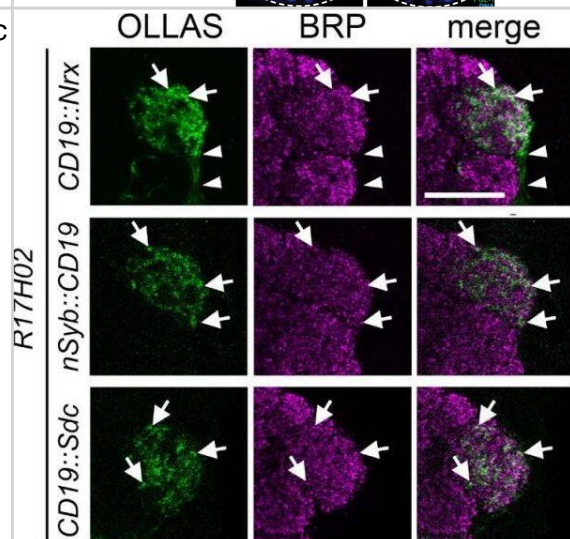
Western Blot: OLLAS Epitope Tag Antibody (L2) - BSA Free [NBP1-06713] - Utilization of pMVP for the creation of unique PDX1 vectors. pENTR plasmids containing cDNA for human PDX1 with or without a stop codon (i.e. open) were recombined with pMVP components to generate an assortment of PDX1-expressing (A) adenovirus & (C) expression plasmid vectors. (B) Immunoblot blot 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.



MES proteins are expressed in *nos-1nos-2* embryonic PGCs. Transcriptome comparison between PGCs isolated from wild-type and *mes-2(RNAi)* L1 larvae. (A) Volcano plot showing log₂ fold change of gene expression between *mes-2(RNAi)* and wild-type L1 PGCs. The numbers of genes whose expression were up or downregulated in *mes-2(RNAi)* compared to wild-type L1 PGCs are indicated. Dashed lines mark the significance cutoff of $q = 0.05$ above which genes were counted as misexpressed. (B) Bar graph showing chromosomal distribution of *mes-2(RNAi)* upregulated genes. Asterisks indicate significantly more genes than expected (hypergeometric test, $p\text{-value} < 0.001$ [**]). (C) 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 α -MES-4 antibody and K76 α -PGL-1 antibody. Images of 2-fold+ stage embryos were taken. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29111977>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Comparison of localization of the CD19::Nrx, nSyb::CD19 and CD19::sdc ligands into presynaptic sites in the ORNs targeting DA1. 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 panels), nSyb::CD19 (middle panels) and CD19::Sdc (bottom panels), with the R17H02 driver (in green). The brain samples were co-immunostained with antibodies against the OLLAS tag (present in the ligand) and against the presynaptic 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, but 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 open publication (<https://pubmed.ncbi.nlm.nih.gov/29231171>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Piscitello A, Nilsson A, Hawgood M et al. Temporal control of human DNA replication licensing by CDK4/6-RB signalling and chemical genetics. *Nature Communications* 2025-09-16 [PMID: 40940326]

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]

Takemura M, Noborn F, Nilsson J et al. Chondroitin sulfate proteoglycan Windpipe modulates Hedgehog signaling in *Drosophila* *Molecular Biology of the Cell* 2020-04-01 [PMID: 32049582] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

Lee CS, Lu T, Seydoux G. Nanos promotes epigenetic reprogramming of the germline by down-regulation of the THAP transcription factor LIN-15B *eLife* 2017-11-07 [PMID: 29111977] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

Paix A, Folkmann A, Seydoux G. Precision genome editing using CRISPR-Cas9 and linear repair templates in *C. elegans* *Methods* 2017-05-01 [PMID: 28392263] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

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] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

Sorensen EB, Seidel HS, Crittenden SL et al. A toolkit of tagged glp-1 alleles reveals strong glp-1 expression in the germline, embryo, and spermatheca *MicroPubl Biol* 2020-06-22 [PMID: 32626848] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

K Hacker, S Benke, B Agerer, S Scinicarie, V Budroni, GA Versteeg A repetitive acidic region contributes to the extremely rapid degradation of the cell-context essential protein TRIM52 *Sci Rep*, 2019-05-27;9(1):7901. 2019-05-27 [PMID: 31133683] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

Matsuda S, Schaefer JV, Mii Y et al. Asymmetric requirement of Dpp/BMP morphogen dispersal in the *Drosophila* wing disc *Nature Communications* 2021-11-08 [PMID: 34750371] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

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] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human, Mouse, Hamster - *Cricetulus* (Chinese Hamster))

Robinson-Thiewes S, Dufour B, Martel PO, Lechasseur X et Al. Non-autonomous regulation of germline stem cell proliferation by somatic MPK-1/MAPK activity in *C. elegans* *Cell Rep* 2021-05-26 [PMID: 34038716]

Akay A, Di Domenico T, Suen KM, Nabih A et Al. The Helicase Aquarius/EMB-4 Is Required to Overcome Intronic Barriers to Allow Nuclear RNAi Pathways to Heritably Silence Transcription *Dev Cell* 2017-08-09 [PMID: 28787591]

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

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]
NBP1-43322-0.5mg	Rat IgG1 Kappa Light Chain Isotype Control (RG1)

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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