

# Product Datasheet

## Olig2 Antibody - Azide and BSA Free NBP1-28667

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-28667**

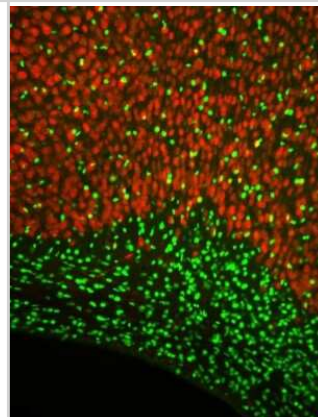
Olig2 Antibody - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	200 mM Tris (pH 8.0), 0.1 M Glycine
<b>Target Molecular Weight</b>	27 kDa
<b>Product Description</b>	
<b>Description</b>	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage).
<b>Host</b>	Rabbit
<b>Gene ID</b>	10215
<b>Gene Symbol</b>	OLIG2
<b>Species</b>	Human, Mouse, Rat
<b>Marker</b>	Oligodendrocyte Marker
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~32 kDa Olig2 protein.
<b>Immunogen</b>	Recombinant mouse Olig2. Accession # Q9EQW6
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Immunohistochemistry Free-Floating
<b>Recommended Dilutions</b>	Western Blot 1:3000, Immunohistochemistry 1:800, Immunocytochemistry/ Immunofluorescence 1:1000, Immunoprecipitation 1:500-1:1000, Immunohistochemistry-Paraffin 1:1000, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
<b>Application Notes</b>	Use in IHC-FrFI reported in scientific literature (PMID:35476595) Olig2 antibody validated for IHC-FR from a verified customer review..

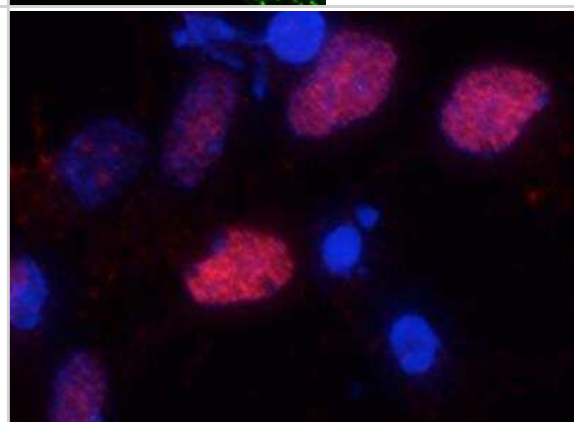


## Images

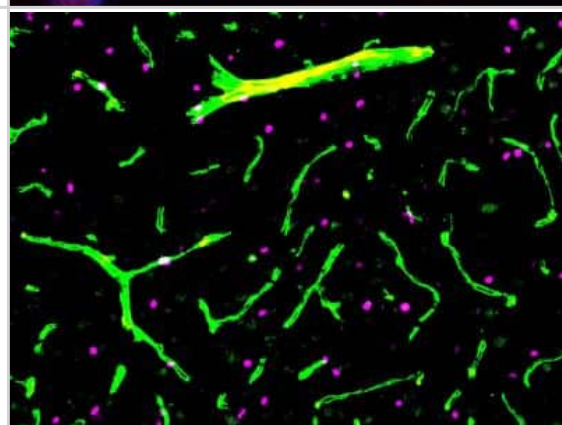
Immunohistochemistry: Olig2 Antibody [NBP1-28667] - Mouse cerebral microslice section (coronal, P14) was co-immunostained with anti-Olig2 and anti-NeuN antibodies. Green: Olig2, Red: NeuN. Anti-Olig2 was used at a 1:800 dilution. This image was submitted via customer Review.



Immunocytochemistry/Immunofluorescence: Olig2 Antibody [NBP1-28667] - Rat cortical neuroepithelial cells with anti-Olig2 (red). The cells were treated with basic FGF for 30 hours prior to staining (this induces Olig2 expression in these primary cells).



Immunohistochemistry-Frozen: Olig2 Antibody [NBP1-28667] - Mouse brain cortex. Antibody at 1:300. Purple: Olig2. Green: CD31. Image submitted by a verified customer review.



## Publications

Diana C. Lozano, Tiffany E. Choe, William O. Cepurna, John C. Morrison, Elaine C. Johnson Early Optic Nerve Head Glial Proliferation and Jak-Stat Pathway Activation in Chronic Experimental Glaucoma Investigative Ophthalmology & Visual Science 2019-03-01 [PMID: 30835784]

Satake T Epstein-Barr virus-based plasmid enables inheritable transgene expression in mouse cerebral cortex PLOS ONE 2021-09-30 [PMID: 34591902]

Da Hee Jung, Malk Eun Pak, Hong Ju Lee, Sung Min Ahn, Young Ju Yun, Yong-Il Shin, Hwa Kyoung Shin, Seo-Yeon Lee, Byung Tae Choi Electroacupuncture on the Scalp over the Motor Cortex Ameliorates Behavioral Deficits Following Neonatal Hypoxia-Ischemia in Rats via the Activation of Neural Stem Cells Life 2020-10-14 [PMID: 33066563]

Larrigan S, Joshi SV, Mattar P Divergent phenotypes in constitutive versus conditional mutant mouse models of Sifrim-Hitz-Weiss syndrome Human molecular genetics 2023-09-21 [PMID: 37738575]

Kim JT, Cho SM, Youn DH et al. Therapeutic effect of a hydrogel-based neural stem cell delivery sheet for mild traumatic brain injury Acta biomaterialia 2023-06-23 [PMID: 37356785] (Immunohistochemistry, Mouse)

Zhai J, Xu Y, Wan H et al. Neurulation of the cynomolgus monkey embryo achieved from 3D blastocyst culture Cell 2023-05-11 [PMID: 37172562]

Larrigan S, Joshi S, Mattar P Divergent phenotypes in germline versus conditional mutant mouse models of Sifrim-Hitz-Weiss Syndrome bioRxiv 2023-02-16 (IHC-Fr, Mouse)

Huang CW, Lee KY, Lin PT et al. Muscleblind-Like 2 knockout shifts adducin 1 isoform expression and alters dendritic spine dynamics of cortical neurons during brain development Neuropathology and applied neurobiology 2023-02-10 [PMID: 36765387] (IHC, Mouse)

Milstead RA, Link CD, Xu Z, Hoeffler CA TDP-43 knockdown in mouse model of ALS leads to dsRNA deposition, gliosis, and neurodegeneration in the spinal cord Cerebral cortex (New York, N.Y. : 1991) 2022-11-28 [PMID: 36443249]

Xu L, Nirwane A, Xu T et al. Fibroblasts repair blood-brain barrier damage and hemorrhagic brain injury via TIMP2 Cell reports 2022-11-22 [PMID: 36417884] (IF/IHC, Mouse)

Ma L, Liang C, Wang J et al. Reversing lysosome-ribosome circuit dysregulation mitigates C9FTD/ALS neurodegeneration and behaviors Human molecular genetics 2022-11-02 [PMID: 36322143] (IF/IHC, Mouse)

Nirwane A, Yao Y SMA<sup>low</sup>/undetectable pericytes differentiate into microglia- and macrophage-like cells in ischemic brain Cellular and molecular life sciences : CMLS 2022-04-28 [PMID: 35482211]

More publications at <http://www.novusbio.com/NBP1-28667>



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### **Products Related to NBP1-28667**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00010215-P01-10ug	Recombinant Human Olig2 GST (N-Term) Protein

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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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