

Product Datasheet

S Opsin Antibody - Azide and BSA Free NBP1-20194

Unit Size: 0.5 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-20194

S Opsin Antibody - Azide and BSA Free

Product Information	
Unit Size	0.5 mg
Concentration	LYOPH mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute 0.5 mg size in 0.5 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the 0.1 mg size is provided in reconstituted format.
Isotype	IgG
Purity	Ammonium sulfate precipitation
Buffer	Lyophilized from PBS

Product Description	
Description	Novus Biologicals Rabbit S Opsin Antibody - Azide and BSA Free (NBP1-20194) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-S Opsin Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	611
Gene Symbol	OPN1SW
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide from human OPSB conjugated to blue carrier protein was used as the antigen.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 10-50 ug/ml, Immunohistochemistry 10-50 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Use in ICC/IF reported in scientific literature (PMID:32716032).

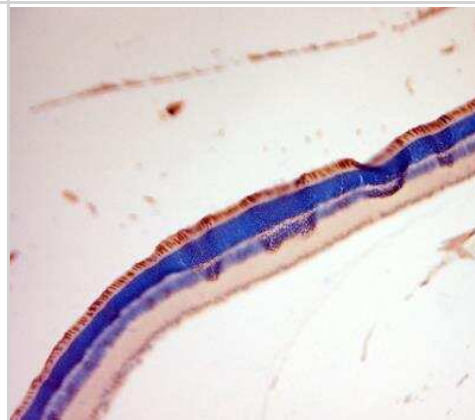


Images

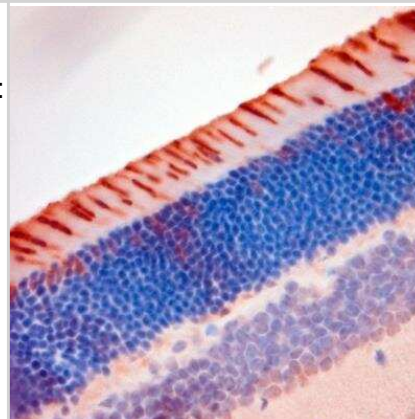
Western Blot: S Opsin Antibody [NBP1-20194] - WB on tissue lysates. Blocking with 1% LFDM for 30 min at RT; Primary antibody used at 1:500 dilution, incubated overnight at 4C.



Immunohistochemistry-Paraffin: S Opsin Antibody [NBP1-20194] - Sections of mouse eye. Tris-EDTA, pH 9 for 20 min using Thermo PT Module. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um. dilution 1:500, incubated 30 min at RT using Autostainer. Sections were counterstained with Harris Hematoxylin.



Immunohistochemistry-Paraffin: S Opsin Antibody [NBP1-20194] - Sections of mouse eye. HIER: Tris-EDTA, pH 9 for 20 min using Thermo PT Module. Blocking: 0.2% LFDM in TBST filtered thru 0.2 um. dilution 1:500, incubated 30 min at RT using Autostainer. Sections were counterstained with Harris Hematoxylin.



Publications

Liu F, Li Q, Su J et al. RP1 Dual-AAV Gene Therapy Preserves Retinal Structure and Ameliorates Photoreceptor Degeneration in a Murine Model of Retinitis Pigmentosa *Investigative Ophthalmology & Visual Science* 2025-09-12 [PMID: 40938072]

Chen C, Rong Y, Zhuang Y et al. RNA-Seq Analysis Reveals an Essential Role of the cGMP-PKG-MAPK Pathways in Retinal Degeneration Caused by Cep250 Deficiency *International Journal of Molecular Sciences* 2023-05-16 [PMID: 37240188] (Mouse)

Guo D, Sun Y, Wu J et Al. Photoreceptor-targeted extracellular vesicles-mediated delivery of Cul7 siRNA for retinal degeneration therapy *Theranostics* 2024-01-01 [PMID: 39267786]

Bassetto M, Kolesnikov AV, Lewandowski D et Al. Dominant role for pigment epithelial CRALBP in supplying visual chromophore to photoreceptors *Cell Rep* 2024-06-27 [PMID: 38676924]

Huang M, Chow CH, Gurdita A et Al. SNAP-25, but not SNAP-23, is essential for photoreceptor development, survival, and function in mice *Commun Biol* 2024-01-05 [PMID: 38182732]

Sun X, Cui Z, Liang Y et al. One-stop assembly of adherent 3D retinal organoids from hiPSCs based on 3D-printed derived PDMS microwell platform *Biofabrication* 2023-04-11 [PMID: 36963105]

Su J, She K, Song L et al. In vivo base editing rescues photoreceptors in a mouse model of retinitis pigmentosa *Molecular Therapy - Nucleic Acids* 2023-03-01 [PMID: 36910709] (WB, Mouse)

Dezfuly AR, Safaee A, Amirpour N et al. Therapeutic effects of human adipose mesenchymal stem cells and their paracrine agents on sodium iodate induced retinal degeneration in rats *Life sciences* [PMID: 35469914] (IHC-P, Rat)

Strayve D, Makia MM, Kakakhel M et al. ROM1 contributes to phenotypic heterogeneity in PRPH2-associated retinal disease *Hum. Mol. Genet.* 2020-07-27 [PMID: 32716032] (ICC/IF)

Sharif AS, Yu D, Loertscher S, Austin R. C8ORF37 is required for photoreceptor outer segment disc morphogenesis by maintaining outer segment membrane protein homeostasis. *J. Neurosci.* 2018-02-13 [PMID: 29440555] (Mouse)





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Products Related to NBP1-20194

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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