

Mouse Rhodopsin / RHO Monoclonal Antibody | anti-RHO antibody

Anti-Rhodopsin / RHO Antibody (clone B630) IHC-plus

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52593	Mouse	Mouse, Bovine, Rat, Pig, Human	Western Blot, Immunofluorescence, Immunocytochemistry, Immunohistochemistry

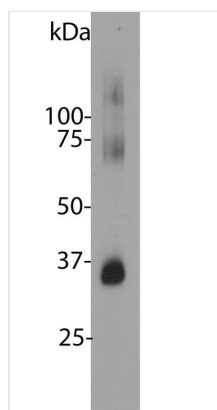
PRODUCT SYNONYMS

Rhodopsin / RHO; Monoclonal Antibody; Anti-Rhodopsin / RHO Antibody (clone B630) IHC-plus; Mouse Monoclonal [clone B630] (IgG1; k) to Human Rhodopsin / RHO; Human Rhodopsin / RHO; CSNBAD1; OPN2; Rhodopsin; RP4; Opsin 2; rod pigment; Opsin-2; anti-RHO antibody

PRODUCT SPECIFICATIONS

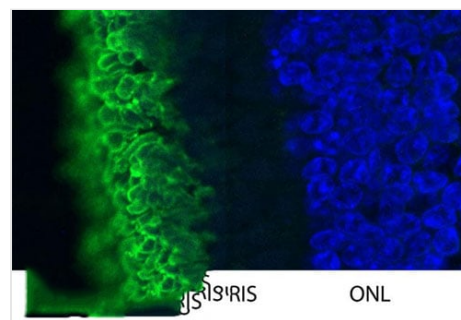
Host	Mouse
Reactivity	Mouse, Bovine, Rat, Pig, Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	B630
Purity/Purification	Protein G purified
Form/Format	PBS, 10 mM sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	348
Applicable Applications for anti-RHO antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Target Species	Human
Preparation and Storage	4 degree C or -20 degree C, Avoid repeated freezing and thawing.

IMAGES



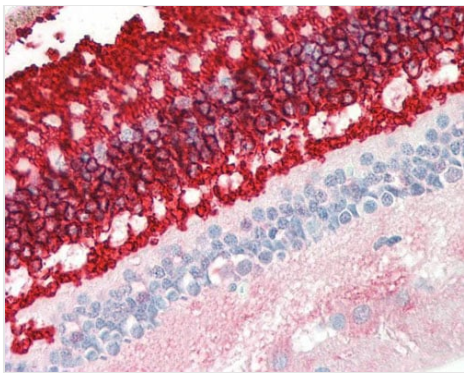
WB (Western Blot)

Blot of bovine retinal extracts probed with Rhodopsin / RHO antibody. The antibody stains a band corresponding to retinal rhodopsin at about 35kDa. Bands about 70 kDa and 140 kDa are aggregated forms of rhodopsin. Note, due to the highly hydrophobic nature of rhodopsin, it important to avoid boiling samples containing this protein in SDS-PAGE sample buffer, as this will result in even more extensive aggregation of the rhodopsin protein and appearance of more of this high molecular weight material.



ICC (Immunocytochemistry)

High magnification confocal image of pig retinal section stained with Rhodopsin / RHO antibody (Green). Rhodopsin is most abundant in the rod outer segments (ROS) of retina, clearly localized in rod membranes. The rod inner segments (RIS) and rod nuclei in the outer nuclear layer (ONL) are also seen in this image. Nuclear DNA was stained with DAPI (blue).



IHC (Immunohistochemistry)
Anti-Rhodopsin / RHO antibody IHC staining of human retina. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-RHO antibody	RHO Antibody, CSNBAD1 Antibody, OPN2 Antibody, Rhodopsin Antibody, RP4 Antibody, Opsin 2, rod pigment Antibody, Opsin-2 Antibody Description: Retinitis pigmentosa is an inherited progressive disease which is a major cause of blindness in western communities. It can be inherited as an autosomal dominant, autosomal recessive, or X-linked recessive disorder. In the autosomal dominant form, which comprises about 25% of total cases, approximately 30% of families have mutations in the gene encoding the rod photoreceptor-specific protein rhodopsin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506527
NCBI GeneID	6010
NCBI Accession #	NP_000530.1
NCBI GenBank Nucleotide #	NM_000539.3
UniProt Accession #	P08100; Q16414; Q2M249
Molecular Weight	38,893 Da
NCBI Official Full Name	rhodopsin
NCBI Official Synonym Full Names	rhodopsin
NCBI Official Symbol	RHO
NCBI Official Synonym Symbols	RP4; OPN2; CSNBAD1
NCBI Protein Information	rhodopsin
UniProt Protein Name	Rhodopsin
UniProt Gene Name	RHO
UniProt Synonym Gene Names	OPN2
UniProt Entry Name	OPSD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rhodopsin-rho-antibody-clone-b630-western-blot-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/52593>