

Rabbit OPN4 Polyclonal Antibody | anti-OPN4 antibody

OPN4 Rabbit pAb

CATALOG # AAA281643	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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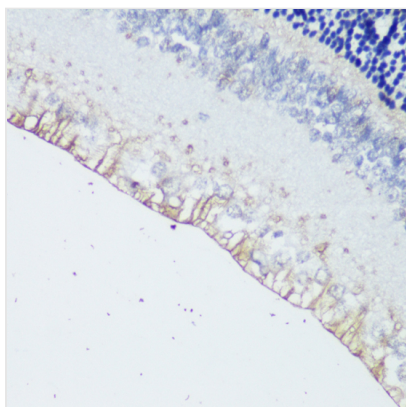
PRODUCT SYNONYMS

OPN4; Polyclonal Antibody; OPN4 Rabbit pAb; MOP; opsin 4; anti-OPN4 antibody

PRODUCT SPECIFICATIONS

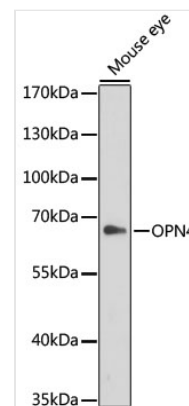
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Sequence	HPKYRVAIAQ HLPCLGVLLG VSRRHSRPYP SYRSTHRSTL TSHTSNLSWI SRRRQESLG SESEVGWTHM EAAAVWGAAQ QANGRSLYGQ GLEDLEAKAP PRPQGHEAET PGKTKGLIPS QDPRM
Applicable Applications for anti-OPN4 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 365-489 of human OPN4 (NP_001025186.1).
Positive Samples	mouse eye
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat retina using OPN4 antibody at dilution of 1:200 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of mouse eye, using OPN4 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-OPN4 antibody	Background: Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This gene encodes a photoreceptive opsin protein that is expressed within the ganglion and amacrine cell layers of the retina. In mouse, retinal ganglion cell axons expressing this gene projected to the suprachiasmatic nucleus and other brain nuclei involved in circadian photoentrainment. In mouse, this protein is coupled to a transient receptor potential (TRP) ion channel through a G protein signaling pathway and produces a physiologic light response via membrane depolarization and increased intracellular calcium. The protein functions as a sensory photopigment and may also have photoisomerase activity. Experiments with knockout mice indicate that this gene attenuates, but does not abolish, photoentrainment. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product Categories/Family for anti-OPN4 antibody	Signal Transduction; G protein signaling; G-Protein-Coupled Receptors(GPCR)

NCBI AND UNIPROT INFORMATION

NCBI GI #	71999143
NCBI GeneID	94233
NCBI Accession #	NP_001025186.1
NCBI GenBank Nucleotide #	NM_001030015.2
UniProt Accession #	Q9UHM6; Q14D01; Q2PP22; Q8NGQ9; B7ZLB3
Molecular Weight	52,635 Da
NCBI Official Full Name	melanopsin isoform 2
NCBI Official Synonym Full Names	opsin 4
NCBI Official Symbol	OPN4
NCBI Official Synonym Symbols	MOP
NCBI Protein Information	melanopsin; opsin-4
UniProt Protein Name	Melanopsin
UniProt Gene Name	OPN4
UniProt Synonym Gene Names	MOP
UniProt Entry Name	OPN4_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/polyclonal/opn4-antibody-immunohistochemistry-western-blot-elisa/281643>