

For Research Use Only

OPN4 Recombinant monoclonal antibody

Catalog Number:87397-1-RR



Basic Information

Catalog Number: 87397-1-RR	GenBank Accession Number: BC113558	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 94233	CloneNo.: 251643A9
Isotype: IgG	UNIPROT ID: Q9UHM6	Recommended Dilutions: WB: 1:1000-1:8000
	Full Name: opsin 4	
	Calculated MW: 478 aa, 53 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse eye tissue,
Species Specificity: human, mouse	

Background Information

OPN4, an opsin that was first isolated from the skin of *Xenopus laevis* in 1998, belongs not to the vertebrate-type opsin family but rather to the invertebrate-type opsins, which are part of the seven-transmembrane G protein-coupled receptor (GPCR) family (PMID:31989708). In humans, OPN4 is expressed in the retinal ganglion cells in addition to part of the brain (PMID:10632589). Moreover, Opn4 functions as a photoreceptor by detecting brightness levels and discriminating visual signals (PMID:22633808). Opn4 also facilitates visual circuits to acquire optimal settings and light adaptation by measuring irradiance levels (PMID:25517373).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

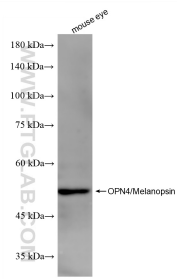
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Selected Validation Data



mouse eye tissue were subjected to SDS PAGE followed by western blot with 87397-1-RR (OPN4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.