

For Research Use Only

OPN4 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87397-1-PBS



Basic Information

Catalog Number: 87397-1-PBS	GenBank Accession Number: BC113558	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 94233	CloneNo.: 251643A9
Source: Rabbit	UNIPROT ID: Q9UHM6	
Isotype: IgG	Full Name: opsin 4	
	Calculated MW: 478 aa, 53 kDa	
	Observed MW: 53 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

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 -80°C.

Storage Buffer:
PBS only, pH7.3

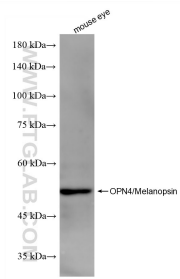
For technical support and original validation data for this product please contact:

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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. This data was developed using the same antibody clone with 87397-1-PBS in a different storage buffer formulation.