

For Research Use Only

# OPN4 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87397-1-PBS



## Basic Information

<b>Catalog Number:</b> 87397-1-PBS	<b>GenBank Accession Number:</b> BC113558	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 94233	<b>CloneNo.:</b> 251643A9
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q9UHM6	
	<b>Full Name:</b> opsin 4	
	<b>Calculated MW:</b> 478 aa, 53 kDa	
	<b>Observed MW:</b> 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

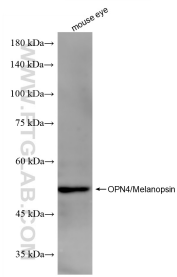
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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.