

For Research Use Only

# OPN4 Polyclonal antibody

Catalog Number: 24478-1-AP



## Basic Information

<b>Catalog Number:</b> 24478-1-AP	<b>GenBank Accession Number:</b> BC113558	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 94233	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UHM6	
<b>Isotype:</b> IgG	<b>Full Name:</b> opsin 4	
<b>Immunogen Catalog Number:</b> AG21643	<b>Calculated MW:</b> 478 aa, 53 kDa	

## Applications

<b>Tested Applications:</b> IF-P, ELISA	<b>Positive Controls:</b> IF-P : mouse eye tissue,
<b>Species Specificity:</b> 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

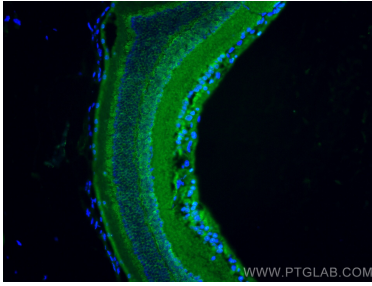
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using OPN4 antibody (24478-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).