

For Research Use Only

OPN4 Polyclonal antibody

Catalog Number: 24478-1-AP



Basic Information

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

Applications

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

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

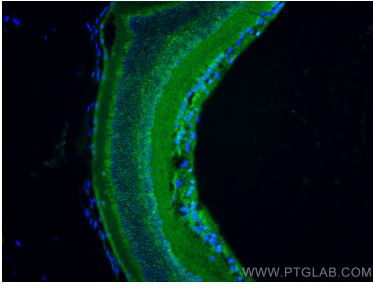
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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
W: ptglab.com

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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 AffiniPure Goat Anti-Rabbit IgG(H+L).