

OPN4 Polyclonal antibody

Catalog Number: 24478-1-AP

Basic Information

Catalog Number:

24478-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21643

GenBank Accession Number:

BC113558

GeneID (NCBI):

94233

UNIPROT ID:

Q9UHM6

Full Name:

opsin 4

Calculated MW:

478 aa, 53 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF-P 1:50-1:500

Applications

Tested Applications:

IF-P, ELISA

Species Specificity:

human, mouse

Positive Controls:

IF-P : mouse eye tissue,

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:

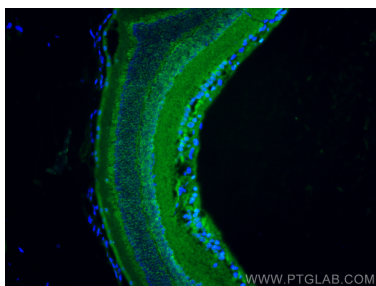
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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).