For Research Use Only

OPN1SW Recombinant antibody, PBS Only

Catalog Number:83754-6-PBS

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Basic Information

Catalog Number:
83754-6-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG20445

GenBank Accession Number:
BC156719

GeneID (NCBI):
611

UNIPROT ID:
P03999

Full Name:
opsin 1 (cone pigments), short-wave-sensitive

Calculated MW:
348 aa, 39 kDa

Purification Method:
Protein A purfication

CloneNo.:
240714A5

Applications

Tested Applications:
IHC, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse

Background Information

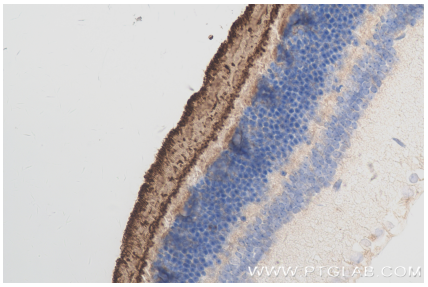
OPN1SW (Short-wave-sensitive opsin 1) belongs to the G-protein coupled receptor 1 family, opsin subfamily. It's one of three types of cone photoreceptors responsible for normal color vision. Inherited tritan color vision deficiencies exhibit an autosomal dominant inheritance pattern and are caused by mutations in OPN1SW (PMID: 32400513).

Storage

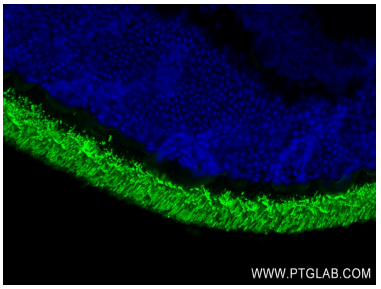
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

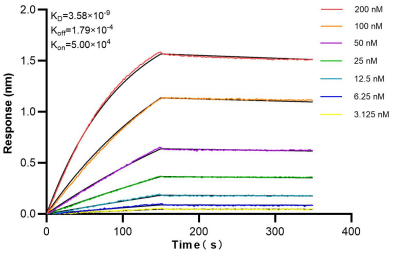
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 83754-6-RR (OPN1SW antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83754-6-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using OPN1SW antibody (83754-6-RR, Clone: 240714A5) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83754-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83754-6-RR against Human OPN1SW were performed. The affinity constant is 3.58 nM.