

For Research Use Only

# OPN1SW Recombinant antibody, PBS Only

Catalog Number: 83754-6-PBS



## Basic Information

|                                      |   |  |
|--------------------------------------|---|--|
| Catalog Number:<br>83754-6-PBS       | GenBank Accession Number:<br>BC156719                       | Purification Method:<br>Protein A purification |
| Size:<br>1 mg/ml                     | GeneID (NCBI):<br>611                                       | CloneNo.:<br>240714A5                          |
| Source:<br>Rabbit                    | UNIPROT ID:<br>P03999                                       |  |
| Isotype:<br>IgG                      | Full Name:<br>opsin 1 (cone pigments), short-wave-sensitive |  |
| Immunogen Catalog Number:<br>AG20445 | Calculated MW:<br>348 aa, 39 kDa                            |  |

## 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.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:  
PBS Only

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

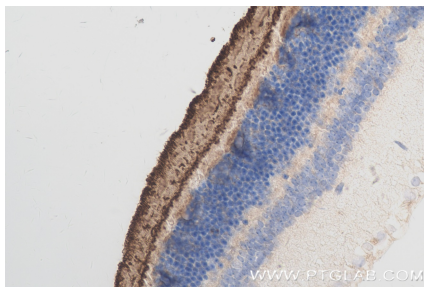
T: 4006900926

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

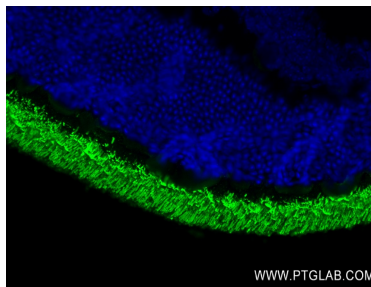
W: [ptgcn.com](http://ptgcn.com)

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## 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.

