

Datasheet for ABIN7540578  
**anti-OPN1SW antibody (N-Term)**



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## Overview

Quantity:	100 µg
Target:	OPN1SW
Binding Specificity:	N-Term
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This OPN1SW antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

## Product Details

Purpose:	S Opsin Antibody
Immunogen:	Anti-S Opsin antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to a N-terminal portion of mouse S Opsin conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against mouse S Opsin.
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

## Target Details

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Target: OPN1SW

Alternative Name: Opn1sw ([OPN1SW Products](#))

Background: Goat Anti-Short-wave-sensitive opsin 1 Antibody, S opsin, Blue cone photoreceptor pigment, Blue-sensitive opsin, BOP, Short wavelength-sensitive cone opsin, Bcp, Opn1sw, Short-wave-sensitive opsin 1 belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal. Required for the maintenance of cone outer segment organization in the ventral retina, but not essential for the maintenance of functioning cone photoreceptors. Involved in ensuring correct abundance and localization of retinal membrane proteins. May increase spectral sensitivity in dim light. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. Anti-S Ospin Antibody is useful for researchers interested in Color Blindness, Metabolism of fat-soluble vitamins, and Peptide ligand-binding receptors.

Gene ID: 12057

NCBI Accession: [NP\\_031564](#)

UniProt: [P51491](#)

## Application Details

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Application Notes: ELISA\_Dilution: 1:10,000 - 1:50,000  
Immunohistochemistry\_Dilution: 1:100

Comment: Suggested Applications:  
Suggested\_Applications: IF  
Other\_Performance\_Data: The 1:100 H1-20 provides optimal staining with staining of structures in multiple layers. These layers have been shown to express S-opsin in the cited reference. For staining only in the outer segment layer, the 1:200 and 1:300 H2-20 appears to be ideal.  
  
Anti-S Ospin Antibody has been tested in ELISA and IHC. Expect a band at ~39kDa in western blot using appropriate tissues and lysates. Positive control used: Mouse eye tissue in Immunohistochemistry.

Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months