



PRODUCT DATA SHEET

Bioworld Technology, Inc.

OPN1SW polyclonal antibody

Catalog: BS33295

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Short-wave-sensitive opsin 1: G protein-coupled photoreceptor that selectively activates G(i) proteins in response to short-wavelength (blue-violet) light, thereby decreasing intracellular cAMP levels (, Ref.10). Activation occurs when the opsin-bound cis-retinal chromophore absorbs a photon and isomerizes to all-trans-retinal, inducing a conformational change in the opsin that triggers a G protein-mediated phototransduction cascade (Ref.10). Required for the maintenance of cone outer segment organization in the ventral retina, but not essential for the maintenance of cone photoreceptor function (By similarity). Involved in ensuring the correct abundance and localization of retinal membrane proteins (By similarity). Mediates visual perception of blue light . May contribute to increased spectral sensitivity under dim light conditions (By similarity). Is not UV-sensitive (By similarity)

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~38.7 kDa

Swiss-Prot:

P03999

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of OPN1SW protein

DATA:

Note:

For research use only, not for use in diagnostic procedure.

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