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(DANRE) opn1sw1 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21179a

Product Information

Application	WB, E
Primary Accession	Q9W6A9
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52074
Calculated MW	37268

Additional Information

Gene ID	30582
Other Names	Opsin-1, short-wave-sensitive 1, Opsin SWS-1, Ultraviolet cone photoreceptor pigment, Ultraviolet-sensitive opsin, opn1sw1, opn1sw2, sws1, uvops
Target/Specificity	This DANRE opn1sw1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 15-47 amino acids of DANRE opn1sw1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	(DANRE) opn1sw1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	opn1sw1
Synonyms	opn1sw2, sws1, uvops
Function	G protein-coupled photoreceptor that selectively activates transducin G alpha protein (G(t)) in response to short-wavelength (blue-violet) light, thereby stimulating the G(t)/transducin protein pathway (By similarity). This activation

	leads to increased cGMP phosphodiesterase activity, resulting in decreased intracellular cGMP and subsequent closure of cGMP-gated ion channels (By similarity). The process is initiated 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 the G protein-mediated phototransduction cascade (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P03999}; Multi-pass membrane protein
Tissue Location	Retinal short single cones, outer and inner segments.

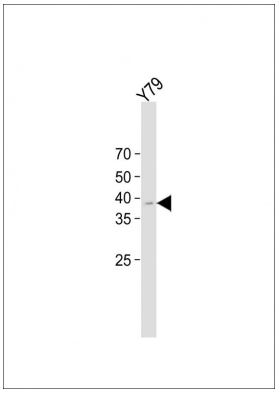
Background

Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal.

References

Vihtelic T.S.,et al.Vis. Neurosci. 16:571-585(1999).
Chinen A.,et al.Genetics 163:663-675(2003).

Images



All lanes: Anti-(DANRE) opn1sw1 Antibody (N-Term) at 1:500 dilution + Y79 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 37 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.