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(DANRE) opn1mw2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21236c

Product Information

Application	WB, E
Primary Accession	Q8AYM8
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52317
Calculated MW	38706

Additional Information

Gene ID	360151
Other Names	Green-sensitive opsin-2, Green cone photoreceptor pigment 2, Opsin RH2-2, Opsin-1, medium-wave-sensitive 2, opn1mw2, rh22
Target/Specificity	This DANRE opn1mw2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 140-171 amino acids from the Central region of DANRE opn1mw2.
Dilution	WB~~1:4000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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) opn1mw2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	opn1mw2
Synonyms	rh22
Function	G protein-coupled photoreceptor that selectively activates transducin G alpha protein (G(t)) in response to medium-wavelength (green) 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. 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). Mediates visual perception of green light in cone photoreceptor cells (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P04001}; Multi-pass membrane protein

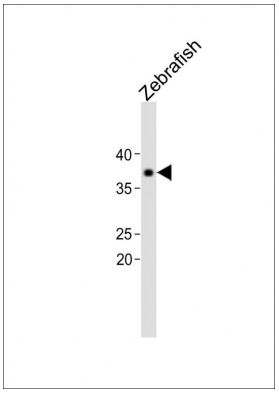
Background

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

References

Chinen A.,et al.Genetics 163:663-675(2003).

Images



All lanes: Anti-(DANRE) opn1mw2 Antibody (Center) at 1:1000 dilution + Zebrafish 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: 38. 7 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

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