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Opn1mw antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14460

Product Information

Application	WB
Primary Accession	O35599
Other Accession	NM_008106, NP_032132
Reactivity	Human, Mouse, Rat, Rabbit, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40218

Additional Information

Gene ID	14539
Alias Symbol	Gcp
Other Names	Medium-wave-sensitive opsin 1, Green cone photoreceptor pigment, Green-sensitive opsin, M opsin, Medium wavelength-sensitive cone opsin, Opn1mw, Gcp
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Opn1mw antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Opn1mw antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

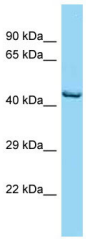
Name	Opn1mw {ECO:0000312|MGI:MGI:1097692}
Synonyms	Gcp
Function	G protein-coupled photoreceptor that selectively activates transducin G alpha protein (G(t)) in response to medium-wavelength (green) light, thereby stimulating the G(t)/transducin protein pathway (By similarity). This activation leads to 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 (PubMed:11055434).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P04001}; Multi-pass membrane protein. Photoreceptor outer segment membrane; Multi-pass membrane protein
Tissue Location	Expressed in retina (at protein level) (PubMed:11055434, PubMed:30948514). Expressed in cone photoreceptor cells (at protein level) (PubMed:11055434)

References

Sun H.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:8860-8865(1997).
Applebury M.L.,et al.Neuron 27:513-523(2000).

Images



WB Suggested Anti-Opn1mw Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Thymus

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