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OPN1MW Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP4917a

Specification

OPN1MW Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P04001

OPN1MW Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 101060233;2652;728458

Other Names
Medium-wave-sensitive opsin 1, Green cone photoreceptor pigment, Green-sensitive opsin, GOP, OPN1MW, GCP

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

OPN1MW Antibody (N-term) Blocking Peptide - Protein Information

Name OPN1MW (HGNC:4206)

Synonyms GCP

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

Cellular Location
Cell membrane; Multi-pass membrane protein

Tissue Location
The three color pigments are found in the cone photoreceptor cells.

OPN1MW Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

OPN1MW Antibody (N-term) Blocking Peptide - Images

OPN1MW Antibody (N-term) Blocking Peptide - Background

OPN1MW encodes for a light absorbing visual pigment of the opsin gene family. The encoded protein is called green cone photopigment or medium-wavelength sensitive opsin. Opsins are G-protein coupled receptors with seven transmembrane domains, an N-terminal extracellular domain, and a C-terminal cytoplasmic domain. The long-wavelength opsin gene and multiple copies of the medium-wavelength opsin gene are tandemly arrayed on the X chromosome and frequent unequal recombination and gene conversion may occur between these sequences. X chromosomes may have fusions of the medium- and long-wavelength opsin genes or may have more than one copy of these genes. Defects in this gene are the cause of deutanopic colorblindness.

OPN1MW Antibody (N-term) Blocking Peptide - References

Thirumuruganandham, S.P., et al. J Mol Model 15(8):959-969(2009)Ala-Laurila, P., et al. J. Biol. Chem. 284(24):16492-16500(2009)Holmes, M.V., et al. PLoS ONE 4 (12), E7960 (2009)