

Rabbit OPN1MW Polyclonal Antibody | anti-OPN1MW antibody

OPN1MW Antibody (N-term)

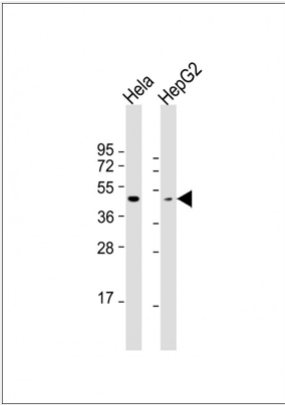
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284822	Rabbit	Human Predicted: Rat, Chicken, Xenopus	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

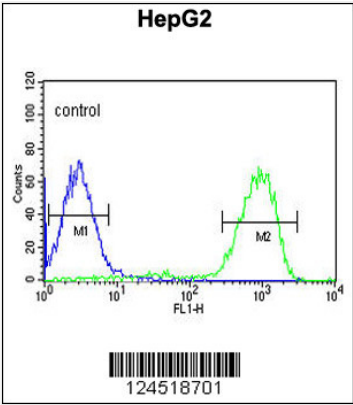
OPN1MW; Polyclonal Antibody; OPN1MW Antibody (N-term); Medium-wave-sensitive opsin 1; Green cone photoreceptor pigment; Green-sensitive opsin; GOP; GCP; anti-OPN1MW antibody

PRODUCT SPECIFICATIONS

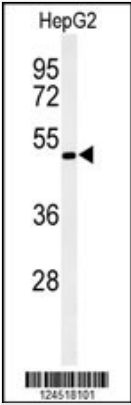
Host	Rabbit
Reactivity	Human Predicted: Rat, Chicken, Xenopus
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This OPN1MW antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-50 amino acids from the N-terminal region of human OPN1MW.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	21-50
Sequence Length	364
Applicable Applications for anti-OPN1MW antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
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.
Antigen Source	HUMAN
Preparation and 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.



WB (Western Blot)
Anti-OPN1MW Antibody (N-term) at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 41 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



FCM/FACS (Flow Cytometry)
OPN1MW Antibody (N-term) (AAA284822) flow cytometric analysis of HepG2 K10cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of OPN1MW Antibody (N-term) in HepG2 cell line lysates (35ug/lane).
OPN1MW (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-OPN1MW antibody	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.
Product Categories/Family for anti-OPN1MW antibody	Neuroscience; Signal Transduction; GPCR Antibodies
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503965
NCBI GeneID	2652
NCBI Accession #	NP_000504.1; NP_001041646.1

NCBI GenBank Nucleotide #	NM_000513.2
UniProt Accession #	P04001
Molecular Weight	40584
NCBI Official Full Name	medium-wave-sensitive opsin 1
NCBI Official Synonym Full Names	opsin 1 (cone pigments), medium-wave-sensitive
NCBI Official Symbol	OPN1MW
NCBI Official Synonym Symbols	CBD; GCP; GOP; CBBM; COD5; OPN1MW1
NCBI Protein Information	medium-wave-sensitive opsin 1
UniProt Protein Name	Medium-wave-sensitive opsin 1
UniProt Gene Name	OPN1MW
UniProt Synonym Gene Names	GCP; GOP
UniProt Entry Name	OPSG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/opn1mw-antibody-flow-cytometry-western-blot-elisa/284822>