

Human Medium wave sensitive opsin 1 (OPN1MW) ELISA Kit | OPN1MW elisa kit

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CATALOG #
AAA27113

REACTIVITY
Human

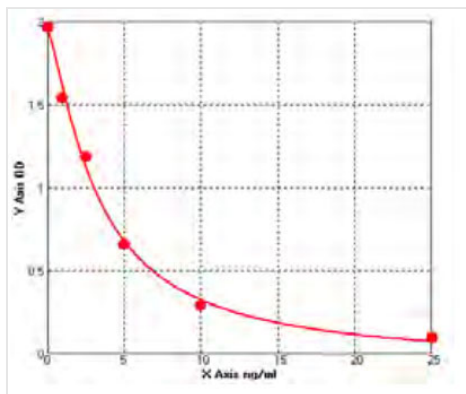
PRODUCT SYNONYMS

Medium wave sensitive opsin 1 (OPN1MW); Human Medium wave sensitive opsin 1 (OPN1MW) ELISA Kit; OPN1MW elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of OPN1MW. No significant cross-reactivity or interference between OPN1MW and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between OPN1MW and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OPN1MW elisa kit	Principle of the Assay: OPN1MW ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-OPN1MW antibody and an OPN1MW-HRP conjugate. The assay sample and buffer are incubated together with OPN1MW-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the OPN1MW concentration since OPN1MW from samples and OPN1MW-HRP conjugate compete for the anti-OPN1MW antibody binding site. Since the number of sites is limited, as more sites are occupied by OPN1MW from the sample, fewer sites are left to bind OPN1MW-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The OPN1MW concentration in each sample is interpolated from this standard curve. Intended Uses: This OPN1MW ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human OPN1MW. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503965
NCBI GeneID	2652
NCBI Accession #	NP_000504.1
NCBI GenBank Nucleotide #	NM_000513.2
Molecular Weight	40,584 Da
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; green cone pigment; green-sensitive opsin; photopigment apoprotein; cone dystrophy 5 (X-linked); green cone photoreceptor pigment
UniProt Protein Name	Medium-wave-sensitive opsin 1
UniProt Gene Name	OPN1MW
UniProt Synonym Gene Names	GCP OPN1MW2; 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/human-elisa-kits/medium-wave-sensitive-opsin-1-opn1mw/27113>