

For Research Use Only

OPN1MW Polyclonal antibody

Catalog Number: 30975-1-AP

1 Publications



Basic Information

Catalog Number:

30975-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34169

GenBank Accession Number:

BC156776

GeneID (NCBI):

2652

UNIPROT ID:

P04001

Full Name:

opsin 1 (cone pigments), medium-wave-sensitive

Observed MW:

38-40 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

WB : mouse brain tissue, rat brain tissue

Background Information

OPN1MW (opsin 1, medium wave sensitive), also known as CBD. It is expected to be located in cell membrane. This gene 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. The calculated molecular weight of OPN1MW is 40 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Ziyang Ye	39549870	Exp Eye Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

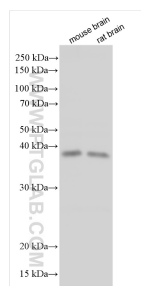
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 30975-1-AP (OPN1MW antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.