

Product Name: Melanopsin Rabbit Polyclonal Antibody

Catalog #: APRab13815

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ELISA

Reactivity Human,Rat,Mouse

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000

Molecular Weight 55kDa

Antigen Information

Gene Name OPN4

Alternative Names OPN4; MOP; Melanopsin; Opsin-4

 Gene ID
 94233.0

 SwissProt ID
 Q9UHM6

The antiserum was produced against synthesized peptide derived from human OPN4. AA Immunogen

range:429-478

Background

Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This gene encodes a

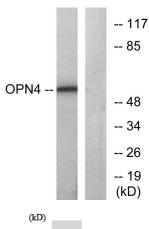


photoreceptive opsin protein that is expressed within the ganglion and amacrine cell layers of the retina. In mouse, retinal ganglion cell axons expressing this gene projected to the suprachiasmatic nucleus and other brain nuclei involved in circadian photoentrainment. In mouse, this protein is coupled to a transient receptor potential (TRP) ion channel through a G protein signaling pathway and produces a physiologic light response via membrane depolarization and increased intracellular calcium. The protein functions as a sensory photopigment and may also have photoisomerase activity. Experiments with knockout mice indicate that this gene attenuates, but does not abolish, photoentrainment. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by Refcaution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data, function:Photoreceptor required for regulation of circadian rhythm. Contributes to pupillar reflex and other non-image forming responses to light. May be able to isomerize covalently bound all-trans retinal back to 11-cis retinal, similarity:Belongs to the G-protein coupled receptor 1 family, similarity:Belongs to the G-protein coupled receptor 1 family, similarity:Belongs to the G-protein retinal ganglion cells, tissue specificity:Eye. Expression is restricted within the ganglion and amacrine cell layers of the retina.

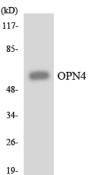
Research Area

Neuroscience; Sensory System; Visual system

Image Data



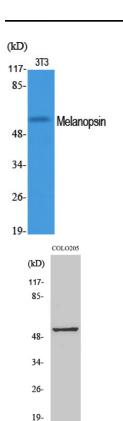
Western blot analysis of lysates from COLO cells, using OPN4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using OPN4 antibody.

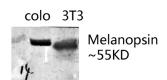
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838





Western Blot analysis of various cells using Melanopsin Polyclonal Antibody

Western Blot analysis of COLO205 cells using Melanopsin Polyclonal Antibody



Western blot analysis of various lysis using Melanopsin Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838