

产品名称: Melanopsin Rabbit Polyclonal Antibody
产品货号: AP Rab13815



产品概述 (Summary)

产品名称 (Production Name)	Melanopsin Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ELISA
种属反应性 (Reactivity)	Human,Rat,Mouse

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	OPN4
别名 (Alternative Names)	OPN4; MOP; Melanopsin; Opsin-4
基因 ID (Gene ID)	94233.0
蛋白 ID (SwissProt ID)	Q9UHM6.The antiserum was produced against synthesized peptide derived from human OPN4. AA range:429-478

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
蛋白分子量 (Molecular Weight)	55kDa

研究背景 (Background)

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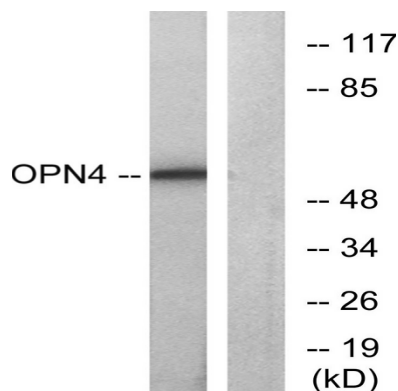


Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This gene encodes a photoreceptive opsin protein that is expressed within the ganglion and amacrine cell layers of the retina. In mouse, retinal ganglion cell axons expressing this gene projected to 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. Opsin subfamily.,subcellular location:Found in soma, dendrites and proximal part of axons of certain retinal ganglion cells.,tissue specificity:Eye. Expression is restricted within the ganglion and amacrine cell layers of the retina.,

研究领域 (Research Area)

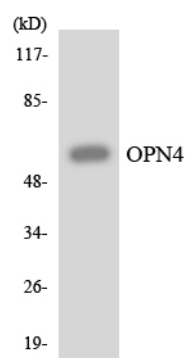
Neuroscience; Sensory System; Visual system

图片 (Image Data)

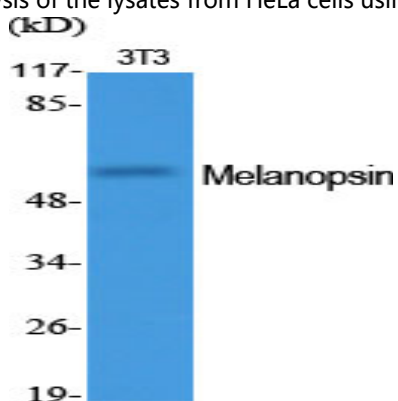


Western blot analysis of lysates from COLO cells, using OPN4 Antibody. The lane on the right is blocked with the synthesized peptide.

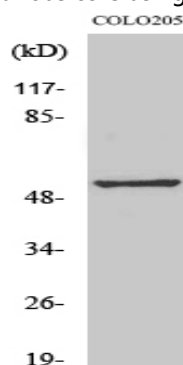
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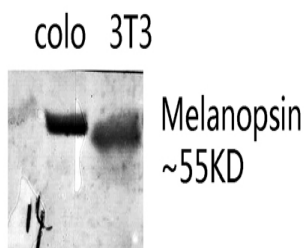
Western blot analysis of the lysates from HeLa cells using OPN4 antibody.



Western Blot analysis of various cells using Melanopsin Polyclonal Antibody



Western Blot analysis of COLO205 cells using Melanopsin Polyclonal Antibody



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

注意事项 (Note)

For research use only .