

Rhodopsin Polyclonal Antibody

Catalog No: YT4087

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Rhodopsin

Fields: >>Phototransduction

P08100

P15409

Gene Name: RHO

Protein Name: Rhodopsin

Human Gene Id: 6010

Human Swiss Prot

Iuman Swiss Frot

No:

Mouse Gene ld: 212541

Mouse Swiss Prot

No:

Rat Gene Id: 24717

Rat Swiss Prot No: P51489

Immunogen: The antiserum was produced against synthesized peptide derived from human

Rhodopsin. AA range:299-348

Specificity: Rhodopsin Polyclonal Antibody detects endogenous levels of Rhodopsin protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 42kD

Cell Pathway: Regulation of Microtubule Dynamics; Regulation of Actin Dynamics; SAPK_JNK;

B_Cell_Antigen

Background: Retinitis pigmentosa is an inherited progressive disease which is a major cause

of blindness in western communities. It can be inherited as an autosomal dominant, autosomal recessive, or X-linked recessive disorder. In the autosomal dominant form, which comprises about 25% of total cases, approximately 30% of families have mutations in the gene encoding the rod photoreceptor-specific protein rhodopsin. This is the transmembrane protein which, when photoexcited, initiates the visual transduction cascade. Defects in this gene are also one of the

causes of congenital stationary night blindness. [provided by RefSeq, Jul 2008],

Function: disease:Defects in RHO are a cause of retinitis pigmentosa autosomal recessive

(ARRP) [MIM:268000]., disease: Defects in RHO are the cause of congenital stationary night blindness autosomal dominant type 1 (CSNBAD1) [MIM:610445]; also known as rhodopsin-related congenital stationary night blindness. Congenital stationary night blindness is a non-progressive retinal disorder characterized by

impaired night vision., disease: Defects in RHO are the cause of retinitis pigmentosa type 4 (RP4) [MIM:180380]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP4 inheritance is autosomal dominant., function: Photoreceptor required for image-forming vision at

low light intensity. Required for photor

Subcellular Location : Membrane; Multi-pass membrane protein. Cell projection, cilium, photoreceptor outer segment. Synthesized in the inner segment (IS) of rod photoreceptor cells before vectorial transport to disk membranes in the rod outer segment (OS)

photosensory cilia...

Expression : Rod shaped photoreceptor cells which mediate vision in dim light.

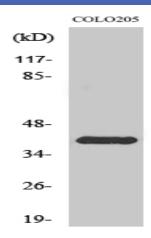
Sort : 14455

No4:

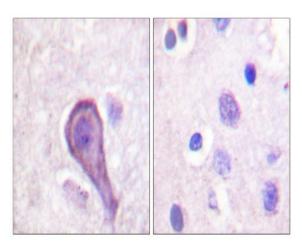
Host: Rabbit

Modifications: Unmodified

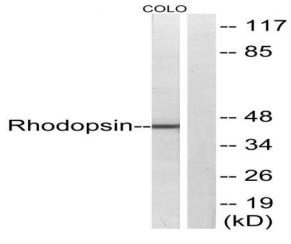
Products Images



Western Blot analysis of various cells using Rhodopsin Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Rhodopsin Antibody. The picture on the right is blocked with the synthesized peptide.



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