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PDE6B Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12294b

Specification

PDE6B Antibody (C-term) Blocking peptide - Product Information

Primary Accession P35913

PDE6B Antibody (C-term) Blocking peptide - Additional Information

Gene ID 5158

Other Names
Rod cGMP-specific 3', 5'-cyclic phosphodiesterase subunit beta, GMP-PDE beta, PDE6B, PDEB

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PDE6B Antibody (C-term) Blocking peptide - Protein Information

Name PDE6B (HGNC:8786)

Synonyms PDEB

Function
Rod-specific cGMP phosphodiesterase that catalyzes the hydrolysis of 3',5'-cyclic GMP (PubMed:20940301). Necessary for the formation of a functional phosphodiesterase holoenzyme (By similarity). Involved in retinal circadian rhythm photoentrainment via modulation of UVA and orange light-induced phase-shift of the retina clock (By similarity). May participate in processes of transmission and amplification of the visual signal (PubMed:8394174).

Cellular Location
Membrane; Lipid-anchor. Cell projection, cilium, photoreceptor outer segment

PDE6B Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PDE6B Antibody (C-term) Blocking peptide - Images

PDE6B Antibody (C-term) Blocking peptide - Background

Photon absorption triggers a signaling cascade in rodphotoreceptors that activates cGMP phosphodiesterase (PDE),resulting in the rapid hydrolysis of cGMP, closure of cGMP-gatedcation channels, and hyperpolarization of the cell. PDE is aperipheral membrane heterotrimeric enzyme made up of alpha, beta,and gamma subunits. This gene encodes the beta subunit. Mutationsin this gene result in retinitis pigmentosa and autosomal dominantcongenital stationary night blindness. Multiple transcript variantsencoding different isoforms have been found for this gene.

PDE6B Antibody (C-term) Blocking peptide - References

Clark, G.R., et al. Ophthalmology 117(11):2169-2177(2010)Bazhin, A.V., et al. Cell. Mol. Life Sci. 67(5):817-828(2010)Verardo, M.R., et al. Invest. Ophthalmol. Vis. Sci. 50(6):2591-2598(2009)Hmani-Aifa, M., et al. Eur. J. Hum. Genet. 17(4):474-482(2009)Sui, R., et al. Adv. Exp. Med. Biol. 613, 245-252 (2008) :