

**PDE6A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP13220c****Specification**

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**PDE6A Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P16499](#)**PDE6A Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5145**Other Names**

Rod cGMP-specific 3', 5'-cyclic phosphodiesterase subunit alpha, GMP-PDE alpha, PDE V-B1, PDE6A, PDEA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13220c was selected from the Center region of PDE6A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**PDE6A Antibody (Center) Blocking Peptide - Protein Information****Name** PDE6A ([HGNC:8785](#))**Synonyms** PDEA**Function**

Rod-specific cGMP phosphodiesterase that catalyzes the hydrolysis of 3',5'-cyclic GMP (PubMed:<a href="http://www.uniprot.org/citations/20940301" target="\_blank">20940301</a>). This protein participates in processes of transmission and amplification of the visual signal.

**Cellular Location**

Cell membrane; Lipid-anchor; Cytoplasmic side. Cell projection, cilium, photoreceptor outer segment

## **PDE6A Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **PDE6A Antibody (Center) Blocking Peptide - Images**

## **PDE6A Antibody (Center) Blocking Peptide - Background**

This gene encodes the cyclic-GMP (cGMP)-specific phosphodiesterase 6A alpha subunit, expressed in cells of the retinal rod outer segment. The phosphodiesterase 6 holoenzyme is a heterotrimer composed of an alpha, beta, and two gamma subunits. cGMP is an important regulator of rod cell membrane current, and its dynamic concentration is established by phosphodiesterase 6A cGMP hydrolysis and guanylate cyclase cGMP synthesis. The protein is a subunit of a key phototransduction enzyme and participates in processes of transmission and amplification of the visual signal. Mutations in this gene have been identified as one cause of autosomal recessive retinitis pigmentosa.

## **PDE6A Antibody (Center) Blocking Peptide - References**

Clark, G.R., et al. Ophthalmology 117(11):2169-2177(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Perlis, R.H., et al. Biol. Psychiatry 67(11):1110-1113(2010) Bazhin, A.V., et al. Cell. Mol. Life Sci. 67(5):817-828(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)