

**PDE6D Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17384c****Specification**

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**PDE6D Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O43924](#)**PDE6D Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5147**Other Names**

Retinal rod rhodopsin-sensitive cGMP 3', 5'-cyclic phosphodiesterase subunit delta, GMP-PDE delta, Protein p17, PDE6D, PDED

**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.

**PDE6D Antibody (Center) Blocking Peptide - Protein Information****Name** PDE6D**Synonyms** PDED**Function**

Promotes the release of prenylated target proteins from cellular membranes (PubMed:<a href="http://www.uniprot.org/citations/9712853" target="\_blank">9712853</a>). Modulates the activity of prenylated or palmitoylated Ras family members by regulating their subcellular location (PubMed:<a href="http://www.uniprot.org/citations/22002721" target="\_blank">22002721</a>, PubMed:<a href="http://www.uniprot.org/citations/23698361" target="\_blank">23698361</a>). Required for normal ciliary targeting of farnesylated target proteins, such as INPP5E (PubMed:<a href="http://www.uniprot.org/citations/24166846" target="\_blank">24166846</a>). Modulates the subcellular location of target proteins by acting as a GTP specific dissociation inhibitor (GDI) (By similarity). Increases the affinity of ARL3 for GTP by several orders of magnitude. Stabilizes ARL3-GTP by decreasing the nucleotide dissociation rate (By similarity).

**Cellular Location**

Cytoplasm, cytosol. Cytoplasmic vesicle membrane; Peripheral membrane protein. Cytoplasm, cytoskeleton, cilium basal body

**Tissue Location**

Widely expressed. Detected in various tissues including spleen, prostate gland, testis, ovary, small intestine, colon, retina, and peripheral blood.

**PDE6D Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PDE6D Antibody (Center) Blocking Peptide - Images****PDE6D Antibody (Center) Blocking Peptide - Background**

Acts as a GTP specific dissociation inhibitor (GDI). Increases the affinity of ARL3 for GTP by several orders of magnitude and does so by decreasing the nucleotide dissociation rate. Stabilizes Arl3-GTP by decreasing the nucleotide dissociation.

**PDE6D Antibody (Center) Blocking Peptide - References**

Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008)Wilson, S.J., et al. J. Biol. Chem. 281(17):11780-11786(2006)Stelzl, U., et al. Cell 122(6):957-968(2005)Hanzal-Bayer, M., et al. EMBO J. 21(9):2095-2106(2002)Nancy, V., et al. J. Biol. Chem. 277(17):15076-15084(2002)