10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDE6D Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP17384c

Specification

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:9712853). Modulates the activity of prenylated or palmitoylated Ras family members by regulating their subcellular location (PubMed:22002721, PubMed:23698361). Required for normal ciliary targeting of farnesylated target proteins, such as INPP5E (PubMed:24166846). 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)