

PDE6D Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17384c

Specification

PDE6D Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O43924
Other Accession	O55057 , O95142 , NP_002592.1
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17420
Antigen Region	26-55

PDE6D Antibody (Center) - 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

Target/Specificity

This PDE6D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 26-55 amino acids from the Central region of human PDE6D.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PDE6D Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PDE6D Antibody (Center) - 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](#)). Required for RAB28 localization to the cone cell outer segments in the retina (By similarity). 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

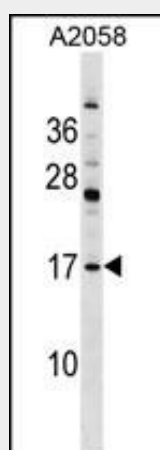
Widely expressed. Detected in various tissues including spleen, prostate gland, testis, ovary, small intestine, colon, retina, and peripheral blood.

PDE6D Antibody (Center) - Protocols

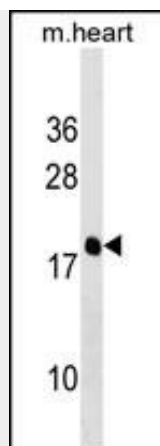
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PDE6D Antibody (Center) - Images



PDE6D Antibody (Center) (Cat. #AP17384c) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the PDE6D antibody detected the PDE6D protein (arrow).



PDE6D Antibody (Center) (Cat. #AP17384c) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the PDE6D antibody detected the PDE6D protein (arrow).

PDE6D Antibody (Center) - 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) - 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)