

PDE6D Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54894

Specification

PDE6D Polyclonal Antibody - Product Information

IHC-P, IHC-F, IF, ICC, E Application

Primary Accession 043924 Reactivity Rat, Bovine Host Rabbit Clonality **Polyclonal** Calculated MW **17 KDa Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human PDE6D

1-100/150 **Epitope Specificity**

Isotype **Purity**

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Belongs to the PDE6D/unc-119 family. This product as supplied is intended for Important Note research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

This gene encodes the delta subunit of rod-specific photoreceptor phosphodiesterase (PDE), a key enzyme in the phototransduction cascade. A similar protein in cow functions in solubilizing membrane-bound PDE. In addition to its role in the PDE complex, the encoded protein is thought to bind to prenyl groups of proteins to target them to subcellular organelles called cilia. Mutations in this gene are associated with Joubert syndrome-22. Alternative splicing results in multiple splice variants. [provided by RefSeq, Mar 2014]

PDE6D Polyclonal Antibody - 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

Retina

Dilution

IHC-P~~N/A<br \><span class</pre>

="dilution_IHC-F">IHC-F~~N/A<br \><span class

="dilution IF">IF~~1:50~200<br \>ICC~~N/A<br



\>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PDE6D Polyclonal Antibody - 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 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDE6D Polyclonal Antibody - Images