

PDE3A Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10157**Specification**

PDE3A Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	Q14432
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125kDa KDa

PDE3A Antibody (N-Terminus) - Additional Information**Gene ID** 5139**Other Names**

cGMP-inhibited 3', 5'-cyclic phosphodiesterase A, 3.1.4.17, Cyclic GMP-inhibited phosphodiesterase A, CGI-PDE A, PDE3A

Target/Specificity

Human PDE3A. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

PDE3A Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PDE3A Antibody (N-Terminus) - Protein Information**Name** PDE3A ([HGNC:8778](#))**Function**

Cyclic nucleotide phosphodiesterase with specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:1315035, PubMed:8695850, PubMed:8155697, PubMed:25961942). Has also activity toward cUMP (PubMed:27975297). Independently of its catalytic activity it is part of an E2/17beta-estradiol-induced pro-apoptotic signaling pathway. E2 stabilizes the PDE3A/SLFN12 complex in the cytosol, promoting the dephosphorylation of SLFN12 and activating its pro-apoptotic ribosomal RNA/rRNA ribonuclease activity. This apoptotic pathway might be relevant

in tissues with high concentration of E2 and be for instance involved in placenta remodeling (PubMed:31420216, PubMed:34707099).

Cellular Location

Membrane {ECO:0000250|UniProtKB:Q9Z0X4}; Multi- pass membrane protein. Cytoplasm, cytosol

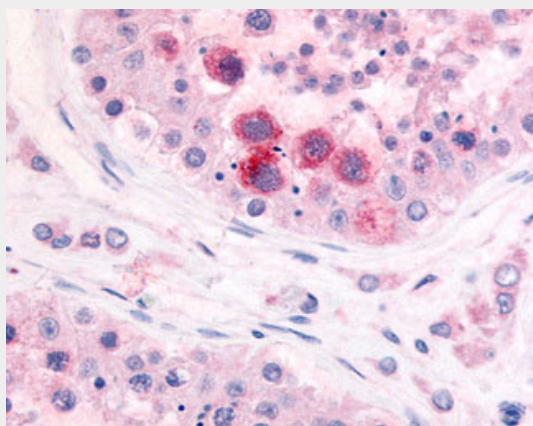
Volume

50 µl

PDE3A Antibody (N-Terminus) - 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](#)

PDE3A Antibody (N-Terminus) - Images

Anti-PDE3A antibody ALS10157 IHC of human testis.

PDE3A Antibody (N-Terminus) - Background

Cyclic nucleotide phosphodiesterase with a dual- specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes.

PDE3A Antibody (N-Terminus) - References

Meacci E.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:3721-3725(1992).
Liu H.,et al.Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.
Cheung P.P.,et al.Blood 88:1321-1329(1996).
Kuthe A.,et al.Chem. Biol. Interact. 119:593-598(1999).
Degerman E.,et al.Biochim. Biophys. Acta 1205:189-198(1994).