

Goat Anti-PDE11A Antibody
Peptide-affinity purified goat antibody
Catalog # AF1801a**Specification**

Goat Anti-PDE11A Antibody - Product Information

Application	WB
Primary Accession	O9HCR9
Other Accession	NP_001070664 , 50940 , 241489 (mouse) , 140928 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	104752

Goat Anti-PDE11A Antibody - Additional Information**Gene ID** 50940**Other Names**

Dual 3', 5'-cyclic-AMP and -GMP phosphodiesterase 11A, 3.1.4.17, 3.1.4.35, cAMP and cGMP phosphodiesterase 11A, PDE11A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PDE11A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PDE11A Antibody - Protein Information**Name** PDE11A {ECO:0000303|PubMed:10906126, ECO:0000312|HGNC:HGNC:8773}**Function**

Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides cAMP and cGMP (PubMed:10725373, PubMed:10906126, PubMed:11050148)

target="_blank">11050148, PubMed:16330539). Catalyzes the hydrolysis of both cAMP and cGMP to 5'-AMP and 5'-GMP, respectively (PubMed:10725373, PubMed:10906126, PubMed:11050148).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Isoform 1 is present in prostate, pituitary, heart and liver. It is however not present in testis nor in penis, suggesting that weak inhibition by Tadalafil (Cialis) is not relevant (at protein level). Isoform 2 may be expressed in testis. Isoform 4 is expressed in adrenal cortex.

Goat Anti-PDE11A 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-PDE11A Antibody - Images



AF1801a (1 µg/ml) staining of Human Prostate lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PDE11A Antibody - Background

The 3',5'-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3',5'-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5'-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a member of the PDE protein superfamily. Mutations in this gene are a cause of Cushing disease and adrenocortical hyperplasia. Multiple transcript variants encoding different isoforms have been found for this gene.

Goat Anti-PDE11A Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Poor replication of candidate genes for major depressive disorder using genome-wide association data. Bosker FJ, et al. Mol Psychiatry, 2010 Mar 30. PMID 20351714.

Failure to replicate genetic associations with antidepressant treatment response in duloxetine-treated patients. Perlis RH, et al. Biol Psychiatry, 2010 Jun 1. PMID 20110084.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.