

Goat Anti-PDE4D3 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1803a**Specification**

Goat Anti-PDE4D3 Antibody - Product Information

Application	WB, E
Primary Accession	Q08499
Other Accession	NP_006194.2 , 5144 , 24627 (mouse)
Reactivity	Rat
Predicted	Human, Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	91115

Goat Anti-PDE4D3 Antibody - Additional Information**Gene ID** 5144**Other Names**

cAMP-specific 3', 5'-cyclic phosphodiesterase 4D, 3.1.4.53, DPDE3, PDE43, PDE4D, DPDE3

Dilution

WB~~1:1000

E~~N/A

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-PDE4D3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PDE4D3 Antibody - Protein Information**Name** PDE4D ([HGNC:8783](#))**Synonyms** DPDE3**Function**

Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.

Cellular Location

Apical cell membrane. Cytoplasm. Membrane. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Found in the soluble fraction, associated with membranes, and associated with the cytoskeleton and the centrosome (By similarity) Colocalized with SHANK2 to the apical membrane of colonic crypt cells

Tissue Location

Expressed in colonic epithelial cells (at protein level). Widespread; most abundant in skeletal muscle [Isoform 8]: Detected in brain, placenta, lung and kidney.

Goat Anti-PDE4D3 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-PDE4D3 Antibody - Images



AF1803a (0.01 µg/ml) staining of Rat Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PDE4D3 Antibody - Background

This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.

Goat Anti-PDE4D3 Antibody - References

Analyses of shared genetic factors between asthma and obesity in children. Melnik E, et al. J Allergy Clin Immunol, 2010 Sep. PMID 20816195.

[Phosphodiesterase 4D (PDE4D) gene polymorphism in patients with acute stroke from Moscow] . Genetika, 2010 Jun. PMID 20734779.

A genome-wide association study of neuroticism in a population-based sample. Calboli FC, et al. PLoS One, 2010 Jul 9. PMID 20634892.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-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.

Sex-differential genetic effect of phosphodiesterase 4D (PDE4D) on carotid atherosclerosis. Liao YC, et al. BMC Med Genet, 2010 Jun 12. PMID 20540798.