

Goat Anti-PDE4D3 Antibody

Peptide-affinity purified goat antibody Catalog # AF1803a

Specification

Goat Anti-PDE4D3 Antibody - Product Information

Application WB
Primary Accession Q08499

Other Accession NP 006194.2, 5144, 24627 (mouse)

Reactivity

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

Format

0.5 mg lgG/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

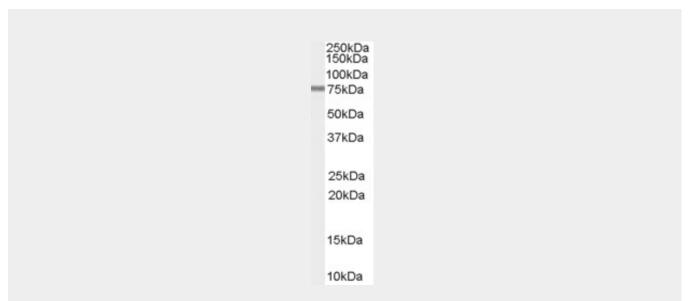
Expressed in colonic epithelial cells (at protein level). Widespread; most abundant in skeletal muscle [Isoform 8]: Detected in brain, placenta, lung and kidney.

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 Cytomety
- Cell Culture

Goat Anti-PDE4D3 Antibody - Images



AF1803a (0.01 μ g/ml) staining of Rat Brain lysate (35 μ g 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. Mel□n E, et al. J Allergy Clin Immunol, 2010 Sep. PMID 20816195.

[Phosphodiesterase 4D (PDE4D) gene polymorphism in patients with acute stroke from Moscow].





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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.

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