

Datasheet for ABIN674966

anti-PDE4D antibody (AA 401-550) (Biotin)



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Overview

Quantity:	100 µL
Target:	PDE4D
Binding Specificity:	AA 401-550
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDE4D antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PDE4D
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PDE4D
Alternative Name:	PDE4D (PDE4D Products)
Background:	Synonyms: cAMP specic 3',5' cyclic phosphodiesterase 4D, DKFZp686M11213, FLJ97311,

Target Details

cAMP specific 3' 5' cyclic phosphodiesterase 4D, cAMP specific phosphodiesterase 4D, cAMP specific phosphodiesterase PDE4D, cAMP specific phosphodiesterase PDE4D6, cyclic AMP phosphodiesterase, DPDE 3, DPDE3, Duncle like phosphodiesterase E3, HSPDE4D, PDE 43, PDE43, PDE4DN2, Phosphodiesterase 4D cAMP specific duncle Drosophila homolog phosphodiesterase E3, Phosphodiesterase 4D cAMP specific phosphodiesterase E3 duncle homolog Drosophila, Phosphodiesterase 4D cAMP specific, Phosphodiesterase 4D, cAMP specific duncle, Phosphodiesterase E3 duncle homolog Drosophila, STRK 1, STRK1.

Background: Cyclic AMP-dependent phosphodiesterase type D (PDE4D) family is comprise of 5 variants (PDE4D1, D2, D3, D4 and D5). One or more PDE4D subtype variants are ubiquitously present in all mammalian cells. In CNS all five PDE4D subtype variants are expressed in varying ratios and their activity is regulated in tandem with GPCRs stimulation. Peripheral tissues also exhibit differential expression of PDE4D variants. PDE4D1/D2 mRNA levels rise in response to an increase in cAMP. Short term regulation of PDE4D variants involved PKA, MAP kinases and Erk2 phosphorylation that results in rapid change in their enzymatic activities. Other regulatory mechanism involved protein protein interactions with cytoskeletal scaffolding proteins.

Gene ID: 5144

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [cAMP Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#)

Application Details

Application Notes: WB 1:300-5000

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months