

AP31948PU-N

Polyclonal Antibody to PDE4B (C-term) - Aff - Purified

Alternate names:	5'-cyclic phosphodiesterase 4B, DPDE4, EC=3.1.4.17, PDE32, PDE4B, cAMP-specific 3'
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	Cyclic nucleotide phosphodiesterases (PDEs) catalyse the hydrolytic inactivation of the common intracellular second messengers cyclic adenosine and guanosine 3', 5'-monophosphate (cAMP and cGMP). Thus, these enzymes play a critical role in the regulation of a wide range of physiological processes modulated by cyclic nucleotide signalling. The PDE4 enzyme belongs to a family of cAMP-dependent PDEs that provide the major means of inactivating the key intracellular second messenger, cAMP. Four genes (4A, 4B, 4C, and 4D) encode around 20 distinct isoform members of the PDE4 family. Each isoform is characterized by a unique N-terminal region.
Uniprot ID:	Q07343
NCBI:	NP_001032416.1
GeneID:	5142
Host:	Goat
Immunogen:	synthetic peptide (C-IDIATEDKSPVDT) from the C Terminus of the protein sequence according to NP_002591.2; NP_001032416.1; NP_001032417.1. Genename: PDE4B
Format:	State: Liquid purified Ig fraction Purification: Affinity Chromatography Buffer System: Tris saline, pH~7.3 Preservatives: 0.02% Sodium Azide Stabilizers: 0.5% BSA
Applications:	Peptide ELISA: 1/32000 (Detection limit). Western blot: 1-3 µg/ml. Approx 98kDa band observed in Human Uterus lysates. The observed molecular weight corresponds to earlier findings in literature with different antibodies (Méhats et al, Endocrinology. 1999 Jul;140(7):3228-37. PMID: 10385419). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	83.3 kDa (NP_002591.2).
Specificity:	This antibody is expected to recognize all reported isoforms (NP_002591.2, NP_001032416.1, NP_001032417.1).
Species Reactivity:	Tested: Human. Expected from sequence similarity: Mouse.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

AP31948PU-N PDE4B antibody staining of Human Uterus lysate at 2 µg/ml (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

