

**PDE4D (Phospho Ser578) rabbit pAb**

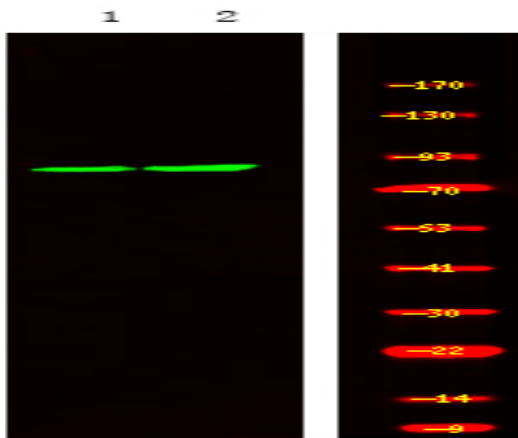
<b>Catalog No :</b>	YP1787
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB
<b>Target :</b>	PDE4D
<b>Fields :</b>	>>Purine metabolism;>>Metabolic pathways;>>cAMP signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Morphine addiction
<b>Gene Name :</b>	PDE4D DPDE3
<b>Protein Name :</b>	PDE4D (Phospho-Ser578)
<b>Human Gene Id :</b>	5144
<b>Human Swiss Prot No :</b>	Q08499
<b>Mouse Gene Id :</b>	238871
<b>Mouse Swiss Prot No :</b>	Q01063
<b>Rat Gene Id :</b>	24627
<b>Rat Swiss Prot No :</b>	P14270
<b>Immunogen :</b>	Synthesized peptide derived from human PDE4D (Phospho-Ser578)
<b>Specificity :</b>	This antibody detects endogenous levels of PDE4D (Phospho-Ser578) at Human, Mouse,Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000

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<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	76kD
<b>Background :</b>	This gene encodes one of four mammalian counterparts to the fruit fly <i>dunce</i> 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.[provided by RefSeq, Sep 2009],
<b>Function :</b>	<p>catalytic activity:Adenosine 3',5'-cyclic phosphate + H(2)O = adenosine 5'-phosphate.,cofactor:Binds 2 divalent metal cations per subunit. Site 1 may preferentially bind zinc ions, while site 2 has a preference for magnesium and/or manganese ions.,disease:Genetic variations in PDE4D might be associated with susceptibility to stroke type 1 (STRK1) [MIM:606799]. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. PubMed:17006457 states that association with stroke has to be considered with caution.,enzyme regulation:Inhibited by rolipram. Activated by phosphatidic acid.,function:Regulates the levels of cAMP in the cell.,pathway:Purine metabolism; cAMP degradation; AMP from cAMP: step 1/1.,PTM:Isoform 2 and isoform 11 are activated by phosphorylation (in vitro), but not isoform 8. Isoform 7 a</p>
<b>Subcellular Location :</b>	Apical cell membrane . Cytoplasm . Membrane . Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . 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. .
<b>Expression :</b>	Expressed in colonic epithelial cells (at protein level). Widespread; most abundant in skeletal muscle. ; [Isoform 6]: Detected in brain. ; [Isoform 8]: Detected in brain, placenta, lung and kidney. ; [Isoform 7]: Detected in heart and skeletal muscle.

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## Products Images



Western Blot analysis of K-562 cell, 2, LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000