

PDE4B/C/D (Phospho Ser133/119/190) Rabbit pAb

CatalogNo: YP0668 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 76kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human PDE4D around the phosphorylation site of Ser190/53. AA range:156-205

Specificity

This antibody detects endogenous levels of PDE4B/C/D only when phosphorylated at Human:S190, Mouse:S129, Rat:S185..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):REsFL

| Target Information

Gene name PDE4B/PDE4C/PDE4D

Protein Name cAMP-specific 3',5'-cyclic phosphodiesterase 4D

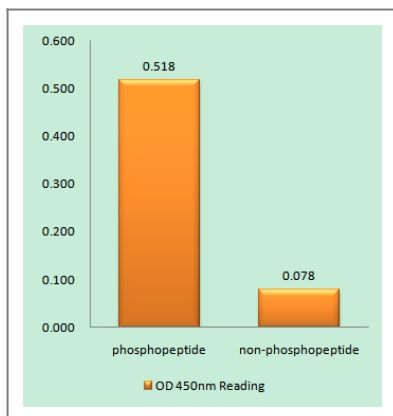
Organism	Gene ID	UniProt ID
Human	5144 ;	Q07343 ; Q08493 ; Q08499 ;
Mouse	110385 ; 238871 ;	
Rat	24626 ; 24627 ;	P14646 ; P14644 ; P14270 ;

Cellular Localization [Isoform PDE4B5]: Cytoplasm . Cell membrane .

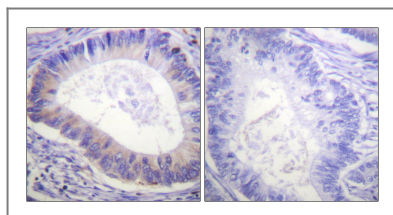
Tissue specificity Expressed in brain , heart , lung and skeletal muscle (PubMed:17519386) . Expressed in white blood cells (PubMed:8392015) . ; [Isoform PDE4B5]: Brain-specific isoform.

Function Alternative products:Additional isoforms seem to exist ,Catalytic activity:Adenosine 3' ,5'-cyclic phosphate + H (2) O = adenosine 5'-phosphate. ,enzyme regulation:Inhibited by rolipram. ,Function:May be involved in mediating central nervous system effects of therapeutic agents ranging from antidepressants to antiasthmatic and anti-inflammatory agents. ,pathway:Purine metabolism; cAMP degradation; AMP from cAMP: step 1/1. ,similarity:Belongs to the cyclic nucleotide phosphodiesterase family. ,tissue specificity:Expressed in brain , heart , lung and skeletal muscle. ,

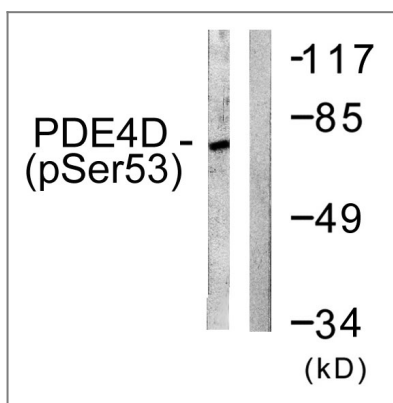
| Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PDE4D (Phospho-Ser190/53) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using PDE4D (Phospho-Ser190/53) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with H₂O₂ 100uM 30', using PDE4D (Phospho-Ser190/53) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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(Phospho Ser133/119/190)
Rabbit pAb