



# PDE4B/C/D Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-02740                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications</b>       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>          | PDE4B/PDE4C/PDE4D                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Name</b>       | cAMP-specific 3',5'-cyclic phosphodiesterase 4D                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human PDE4D. AA range:156-205                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Specificity</b>        | PDE4B/C/D Polyclonal Antibody detects endogenous levels of PDE4B/C/D protein.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Dilution</b>           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>           | PDE4B; DPDE4; cAMP-specific 3'; 5'-cyclic phosphodiesterase 4B; DPDE4; PDE32; PDE4C; DPDE1; cAMP-specific 3',5'-cyclic phosphodiesterase 4C; DPDE1; PDE21; PDE4D; DPDE3; cAMP-specific 3',5'-cyclic phosphodiesterase 4D; DPDE3; PDE43                                                                                                                                                                                                                                         |
| <b>Observed Band</b>      | 76kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cell Pathway</b>       | [Isoform PDE4B5]: Cytoplasm . Cell membrane .                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Tissue Specificity</b> | Expressed in brain, heart, lung and skeletal muscle (PubMed:17519386). Expressed in white blood cells (PubMed:8392015). ; [Isoform PDE4B5]: Brain-specific isoform.                                                                                                                                                                                                                                                                                                            |
| <b>Function</b>           | 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 |

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phosphodiesterase family.,tissue specificity:Expressed in brain, heart, lung and skeletal muscle.,

**Background**

This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. The encoded protein regulates the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014],

**matters needing attention**

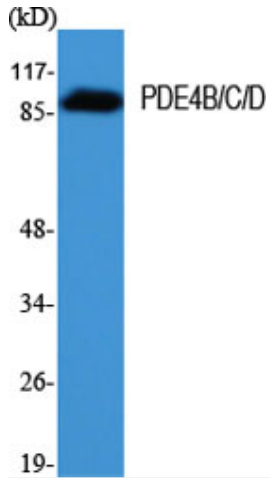
Avoid repeated freezing and thawing!

**Usage suggestions**

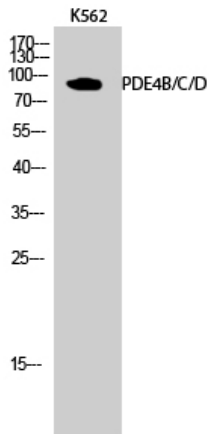
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



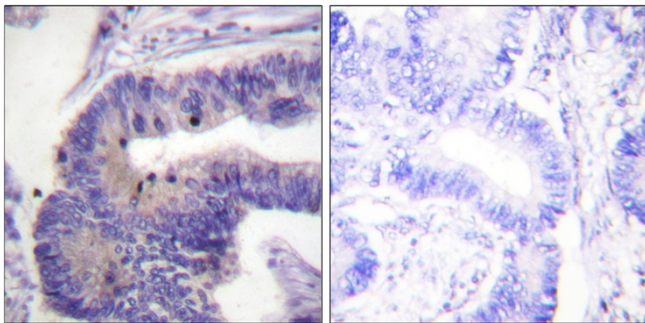
## Products Images



Western Blot analysis of various cells using PDE4B/C/D Polyclonal Antibody



Western Blot analysis of K562 cells using PDE4B/C/D Polyclonal Antibody



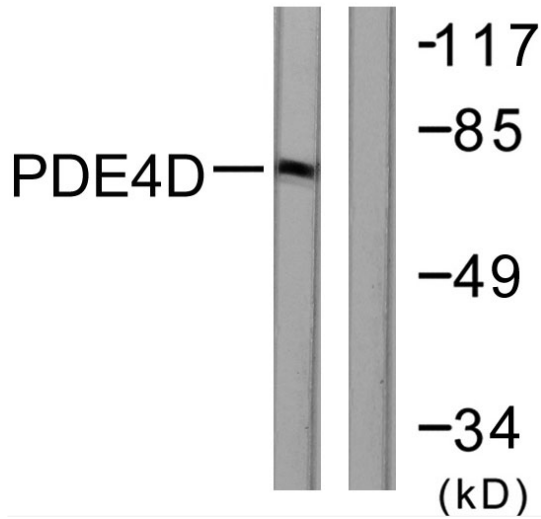
Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using PDE4D Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from K562 cells, treated with H<sub>2</sub>O<sub>2</sub> 100uM 30', using PDE4D Antibody. The lane on the right is blocked with the synthesized peptide.