

PDE1B Antibody

Purified Mouse Monoclonal Antibody Catalog # AO2281a

Product Information

Application Primary Accession Reactivity Host Clonality Clone Names Isotype Calculated MW Description	WB, IHC, FC, E Q01064 Human, Rat Mouse Monoclonal 5C4A3 IgG1 61380 The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Immunogen	Purified recombinant fragment of human PDE1B (AA: 370-536) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	5153
Other Names	Calcium/calmodulin-dependent 3', 5'-cyclic nucleotide phosphodiesterase 1B, Cam-PDE 1B, 3.1.4.17, 63 kDa Cam-PDE, PDE1B, PDE1B1, PDES1B
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PDE1B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

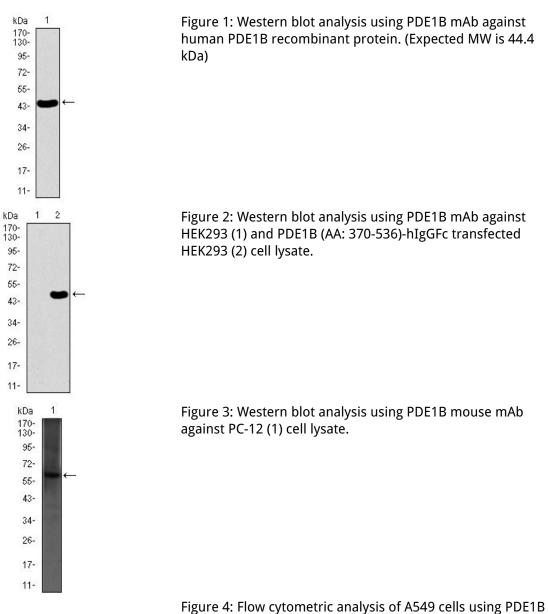
Name

Synonyms	PDES1B
Function	Cyclic nucleotide phosphodiesterase with a dual specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed: <u>15260978</u> , PubMed: <u>8855339</u> , PubMed: <u>9419816</u>). Has a preference for cGMP as a substrate (PubMed: <u>9419816</u>).
Cellular Location	Cytoplasm, cytosol.

References

1.J Biol Chem. 2007 Nov 9;282(45):32749-57. 2.Proc Natl Acad Sci U S A. 2005 Jan 11;102(2):497-502.

Images



mouse mAb (green) and negative control (red).

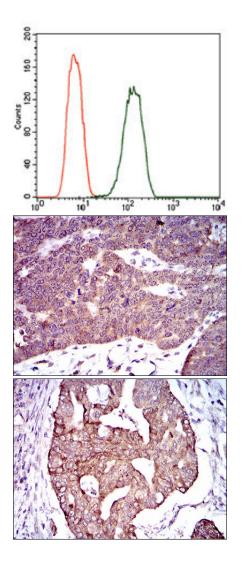


Figure 5: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using PDE1B mouse mAb with DAB staining.

Figure 6: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PDE1B mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.