

Product Name: KD-Validated PDE1B Mouse Monoclonal Antibody**Catalog #: KVA00518**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 61.4kDa

Antigen Information

Gene Name	PDE1B PDE1B; Phosphodiesterase 1B; PDES1B; Dual Specificity Calcium/Calmodulin-Dependent 3',5'-Cyclic Nucleotide Phosphodiesterase 1B; Phosphodiesterase 1B, Calmodulin-Dependent; 63 KDa Cam-PDE; EC 3.1.4.17; Cam-PDE 1B; Presumed 63kDa Form Of The Type
Alternative Names	1 Cyclic Nucleotide Phosphodiesterase Family Known As PDE1B; Calcium/Calmodulin-Dependent 3',5'-Cyclic Nucleotide Phosphodiesterase 1B; Calcium/Calmodulin-Stimulated Cyclic Nucleotide Phosphodiesterase; Epididymis Secretory Sperm Binding Protein Li 79p; Calmodulin-Stimulated Phosphodiesterase PDE1B1; HEL-S-79p; EC 3.1.4; PDE1B1
Gene ID	5153.0
SwissProt ID	Q01064
Immunogen	Recombinant protein of human PDE1B

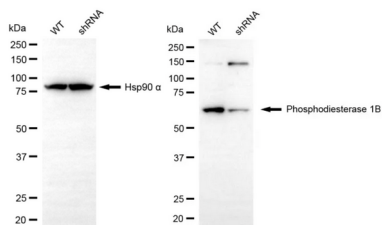
Background

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.[provided by RefSeq, Jul 2011]

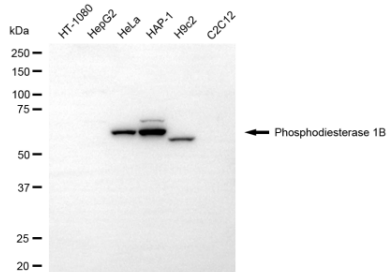
Research Area

Cancer, Signal Transduction

Image Data



Western blotting analysis using phosphodiesterase 1B antibody (KVA00518). Phosphodiesterase 1B expression in wild-type (WT) and phosphodiesterase 1B (PDE1B) shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phosphodiesterase 1B antibody (KVA00518, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:20,000) respectively.



Western blotting analysis using phosphodiesterase 1B antibody (KVA00518). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phosphodiesterase 1B antibody (KVA00518, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.