

**KD-Validated Anti-PDE1B Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2081****Specification****KD-Validated Anti-PDE1B Mouse Monoclonal Antibody - Product Information**

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Primary Accession | <a href="#">Q01064</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity        | Rat, Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype           | Mouse IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Calculated MW     | Predicted, 61 kDa, observed, 61 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Name         | KDa PDE1B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Aliases           | PDE1B; Phosphodiesterase 1B; PDES1B;<br>Dual Specificity<br>Calcium/Calmodulin-Dependent 3',5'-Cyclic<br>Nucleotide Phosphodiesterase 1B;<br>Phosphodiesterase 1B,<br>Calmodulin-Dependent; 63 KDa Cam-PDE;<br>EC 3.1.4.17; Cam-PDE 1B; Presumed 63kDa<br>Form Of The Type 1 Cyclic Nucleotide<br>Phosphodiesterase Family Known As<br>PDE1B; Calcium/Calmodulin-Dependent<br>3',5'-Cyclic Nucleotide Phosphodiesterase<br>1B; Calcium/Calmodulin-Stimulated Cyclic<br>Nucleotide Phosphodiesterase; Epididymis<br>Secretory Sperm Binding Protein Li 79p;<br>Calmodulin-Stimulated Phosphodiesterase<br>PDE1B1; HEL-S-79p; EC 3.1.4; PDE1B1<br>Recombinant protein of human PDE1B |
| Immunogen         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**KD-Validated Anti-PDE1B Mouse Monoclonal Antibody - Additional Information**

|                                                                                                                                                                                                                                                               |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Gene ID                                                                                                                                                                                                                                                       | 5153 |
| <b>Other Names</b>                                                                                                                                                                                                                                            |      |
| Dual specificity calcium/calmodulin-dependent 3', 5'-cyclic nucleotide phosphodiesterase 1B, Cam-PDE 1B, 3.1.4.17, 63 kDa Cam-PDE, PDE1B ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=8775" target="_blank">HGNC:8775</a> ), PDES1B |      |

**KD-Validated Anti-PDE1B Mouse Monoclonal Antibody - Protein Information****Name** PDE1B ([HGNC:8775](#))**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:<a href="http://www.uniprot.org/citations/15260978" target="\_blank">15260978</a>, PubMed:<a href="http://www.uniprot.org/citations/8855339" target="\_blank">8855339</a>, PubMed:<a href="http://www.uniprot.org/citations/9419816" target="\_blank">9419816</a>). Has a preference for cGMP as a substrate (PubMed:<a href="http://www.uniprot.org/citations/9419816" target="\_blank">9419816</a>).

### Cellular Location

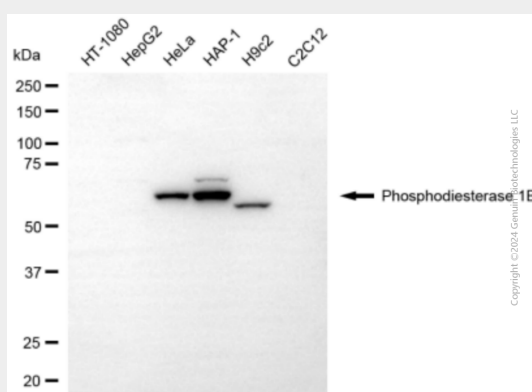
Cytoplasm, cytosol.

## KD-Validated Anti-PDE1B Mouse Monoclonal Antibody - Protocols

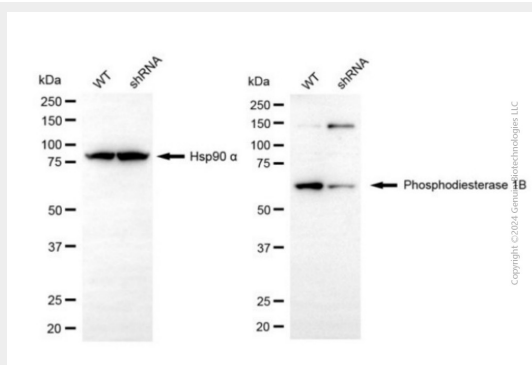
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-PDE1B Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-phosphodiesterase 1B antibody (Cat#AGI2081). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-phosphodiesterase 1B antibody (Cat#AGI2081, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-phosphodiesterase 1B antibody (Cat#AGI2081). Phosphodiesterase 1B expression in wild-type (WT) and phosphodiesterase 1B (PDE1B) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-phosphodiesterase 1B antibody (Cat#AGI2081, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.