

**PTP1B Antibody**  
**Rabbit mAb**  
**Catalog # AP91024****Specification**

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**PTP1B Antibody - Product Information**

Application WB, IHC, FC, ICC  
Primary Accession [P18031](#)  
Clonality Monoclonal  
**Other Names**  
CPTP1; PTN1; PTP-1B; PTP-HA2; PTPN1;

Isotype Rabbit IgG  
Host Rabbit  
Calculated MW 49967 Da

**PTP1B Antibody - Additional Information**

Dilution WB~~1:1000  
IHC~~1:100~500  
FC~~1:10~50  
ICC~~N/A  
Purification Affinity-chromatography  
Immunogen A synthesized peptide derived from human PTP1B  
Description The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues.  
Storage Condition and Buffer Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**PTP1B Antibody - Protein Information****Name** PTPN1**Synonyms** PTP1B**Function**

Tyrosine-protein phosphatase which acts as a regulator of endoplasmic reticulum unfolded protein response. Mediates dephosphorylation of EIF2AK3/PERK; inactivating the protein kinase activity of EIF2AK3/PERK. May play an important role in CKII- and p60c- src-induced signal transduction

cascades. May regulate the EFNA5-EPHA3 signaling pathway which modulates cell reorganization and cell-cell repulsion. May also regulate the hepatocyte growth factor receptor signaling pathway through dephosphorylation of MET.

**Cellular Location**

Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side Note=Interacts with EPHA3 at the cell membrane

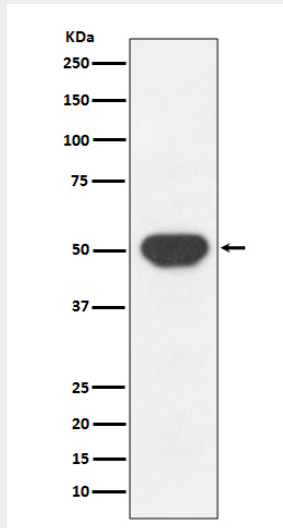
**Tissue Location**

Expressed in keratinocytes (at protein level).

**PTP1B 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](#)

**PTP1B Antibody - Images**

Western blot analysis of PTP1B expression in HeLa cell lysate.