

# Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody

Catalog # ABO13725

### Specification

# Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, IF, ICC, FC **Primary Accession** P18031 Rabbit Host Isotype Rabbit IgG Reactivity Human Clonality Monoclonal Format Liquid Description Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human.

## Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 5770

**Other Names** Tyrosine-protein phosphatase non-receptor type 1, 3.1.3.48, Protein-tyrosine phosphatase 1B, PTP-1B, PTPN1, PTP1B

Calculated MW 49967 MW KDa

Application Details WB 1:500-1:2000<br>IHC 1:50-1:100<br>ICC/IF 1:50-1:100<br>FC 1:20

**Subcellular Localization** Endoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side. Interacts with EPHA3 at the cell membrane.

**Contents** Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen A synthesized peptide derived from human PTP1B

Purification Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.



# Anti-PTP1B PTPN1 Rabbit Monoclonal 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

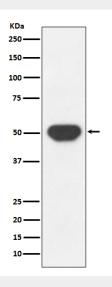
**Tissue Location** Expressed in keratinocytes (at protein level).

## Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### Anti-PTP1B PTPN1 Rabbit Monoclonal Antibody - Images





Western blot analysis of PTP1B expression in HeLa cell lysate.