

Product datasheet for TA590672

PTP1B (PTPN1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB 1:20000, IHC 1:150, ELISA 1:100-1:2000

Reactivity: Human

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Immunogen: DNA immunization. In vivo generated recombinant protein fragment

Formulation: 20 mM Potassium Phosphate, 150 mM Sodium Chloride, pH 7.0

Concentration: 0.8mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: protein tyrosine phosphatase non-receptor type 1

Database Link: NP 002818

Entrez Gene 5770 Human

P18031



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

The non-transmembrane protein tyrosine phosphatase, PTP1B, comprises 435 amino acids, of which the C-terminal 114 residues have been implicated in controlling both localization and function of this enzyme. Increased phosphorylation of PTP1B is seen to accompany the transition from G2 to M phase of the cell cycle. Immunofluorescence experiments indicate that PTP-1B is localized predominantly in the endoplasmic reticulum (ER). Subcellular fractionation is consistent with this localization and establishes that PTP-1B is tightly associated with microsomal membranes, with its phosphatase domain oriented towards the cytoplasm. The finding of a tyrosine phosphatase on the ER suggests new possibilities for cellular events controlled by tyrosine phosphorylation (2). It has also been shown that PTP1B is a novel substrate for Akt and that phosphorylation of PTP1B by Akt at Ser(50) may negatively modulate its phosphatase activity creating a positive feedback mechanism for insulin signaling (3).

Synonyms: PTP1B

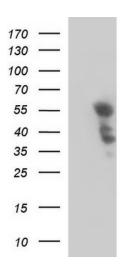
Note: This antibody was generated by SDIX's Genomic Antibody Technology ® (GAT). Learn about

GAT

Protein Families: Druggable Genome, Phosphatase, Transmembrane

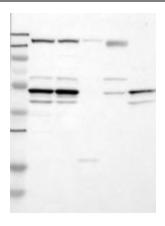
Protein Pathways: Adherens junction, Insulin signaling pathway

Product images:

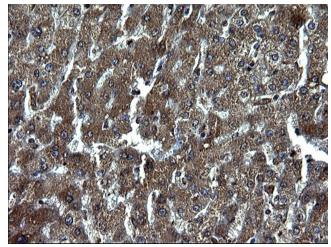


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTPN1 ([RC204902], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTPN1. Positive lysates [LY419087] (100ug) and [LC419087] (20ug) can be purchased separately from OriGene.

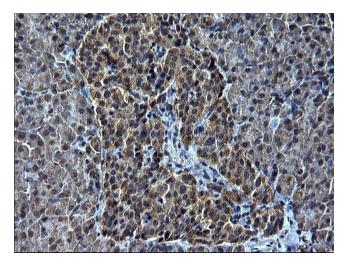




Western Blot: - Samples: Lane 1, Marker: 250, 130, 95, 72, 55, 36, 28, 17, 11 Lane 2, RT-4 Lane 3, U-251MG sp Lane 4, Human Plasma Lane 5, Liver Lane 6, Tonsil, Target weight 50 kDa.

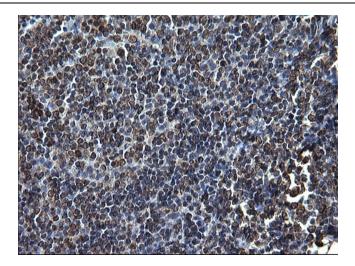


Immunohistochemical staining of paraffinembedded Human liver tissue using anti-PTPN1 Rabbit Polyclonal antibody. (TA590672)

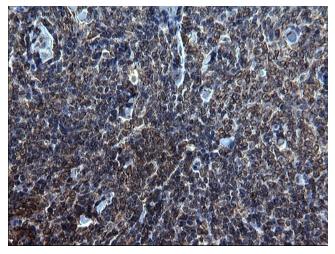


Immunohistochemical staining of paraffinembedded Human pancreas tissue using anti-PTPN1 Rabbit Polyclonal antibody. (TA590672)





Immunohistochemical staining of paraffinembedded Human lymph node tissue using anti-PTPN1 Rabbit Polyclonal antibody. (TA590672)



Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-PTPN1 Rabbit Polyclonal antibody. (TA590672)