Product Name: PTP1B Rabbit Polyclonal Antibody

Catalog #: APRab16666



Summary

Production Name PTP1B Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC,WB,ELISA

Reactivity Human, Mouse, Rat, Monkey

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Storage

Gene Name PTPN1

PTPN1; PTP1B; Tyrosine-protein phosphatase non-receptor type 1; Protein-tyrosine Alternative Names

phosphatase 1B; PTP-1B

Gene ID 5770.0

P18031.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

PTP1B. AA range:16-65

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000...

Molecular Weight 49kD

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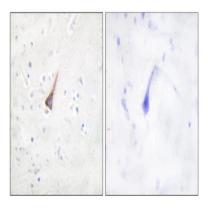
Background

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. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,function:May play an important role in CKII- and p60c-src-induced signal transduction cascades.,PTM:Oxidized on Cys-215; the Cys-SOH formed in response to redox signaling reacts with the alpha-amido of the following residue to form a 4-amino-3-isothiazolidinone serine cross-link, triggering a conformational change that inhibits substrate binding and activity. The active site can be restored by reduction.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily.,similarity:Contains 1 tyrosine-protein phosphatase domain.,

Research Area

Adherens Junction; Insulin Receptor;

Image Data



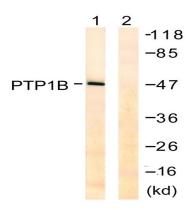
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PTP1B Antibody. The picture on the right is blocked with the synthesized peptide.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

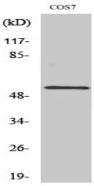
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Western blot analysis of lysates from COS7 cells, treated with UV 30 ', using PTP1B Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using PTP1B Polyclonal Antibody diluted at 1: 500

Note

For research use only.