

Product Name: PTPN1 Mouse Monoclonal Antibody

Catalog #: AMM81408

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application WB,ELISA,FC

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration 1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide.

Purification Affinity Purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 50kDa

Antigen Information

Gene Name PTPN1
Alternative Names PTP1B
Gene ID 5770.0
SwissProt ID P18031

Immunogen Purified recombinant fragment of human PTPN1 (AA: 40-246) expressed in E. Coli.

Background

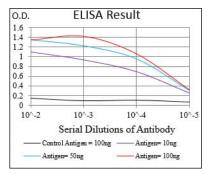
The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is



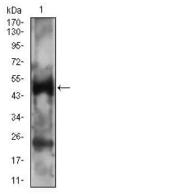
essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating 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 this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene.

Research Area

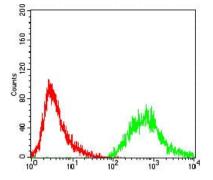
Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



Western blot analysis using PTPN1 mouse mAb against A431 cell lysate.



Flow cytometric analysis of A431 cells using PTPN1 mouse mAb (green) and negative control (red).

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