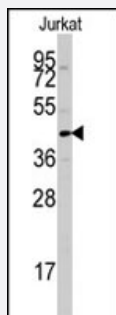


PTPN7 polyclonal antibody

Catalog # PAB2995

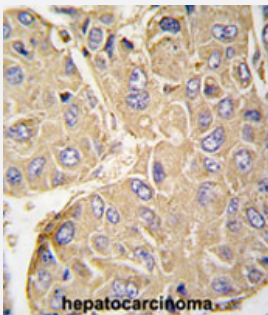
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PTPN7 polyclonal antibody (Cat # PAB2995) in Jurkat cell line lysates (35 ug/lane). PTPN7 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with PTPN7 polyclonal antibody (Cat # PAB2995), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PTPN7.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S44 of human PTPN7.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — PTPN7

Entrez GeneID	5778
Protein Accession#	NP_002823;P35236
Gene Name	PTPN7
Gene Alias	BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI
Gene Description	protein tyrosine phosphatase, non-receptor type 7
Omim ID	176889
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The noncatalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000034115|dual specificity phosphatase 1|hematopoietic protein-tyrosine phosphatase|protein-tyrosine phosphatase, nonreceptor-type, stress induced

Publication Reference

- [Crystal structures and inhibitor identification for PTPN5, PTPRR and PTPN7: a family of human MAPK-specific protein tyrosine phosphatases.](#)

Eswaran J, von Kries JP, Marsden B, Longman E, Debreczeni JE, Ugochukwu E, Turnbull A, Lee WH, Knapp S, Barr AJ. The Biochemical Journal 2006 May; 395(3):483.

- [Structure of the hematopoietic tyrosine phosphatase \(HePTP\) catalytic domain: structure of a KIM phosphatase with phosphate bound at the active site.](#)

Mustelin T, Tautz L, Page R. Journal of Molecular Biology 2005 Oct; 354(1):150.

- [The protein tyrosine phosphatase HePTP regulates nuclear translocation of ERK2 and can modulate megakaryocytic differentiation of K562 cells.](#)

Pettiford SM, Herbst R. Leukemia 2003 Feb; 17(2):366.

Pathway

- [MAPK signaling pathway](#)