

AP14264PU-N**Polyclonal Antibody to PTPN7 / HEPTP - Aff - Purified**

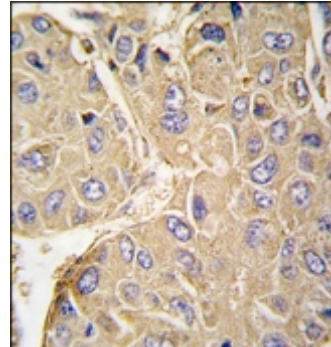
Alternate names:	Hematopoietic protein-tyrosine phosphatase, Protein-tyrosine phosphatase LC-PTP, Tyrosine-protein phosphatase non-receptor type 7
Quantity:	0.4 ml
Concentration:	lot specific
Background:	PTPN7 is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPN7 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 has been shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which is thought to function through dephosphorylating the molecules related to MAP kinase pathway.
Uniprot ID:	P35236
NCBI:	9606
GeneID:	5778
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide corresponding to amino acid residues surrounding S44 of human PTPN7.
Format:	State: Liquid purified Ig Purification: Protein A column, followed by peptide affinity purification Buffer System: PBS with 0.09% (W/V) sodium azide
Applications:	ELISA: 1/1,000. Western blotting: 1/50 - 1/100. Immunohistochemistry: 1/10 - 1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to PTPN7. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Caution:	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:

1. Eswaran, J., *Biochem. J.* 395 (3), 483-491 (2006)
2. Mustelin, T., *J. Mol. Biol.* 354 (1), 150-163 (2005)
3. Pettiford, S.M., *Leukemia* 17 (2), 366-378 (2003)
4. Kosaki, K., *J. Clin. Endocrinol. Metab.* 87 (8), 3529-3533 (2002)

Pictures:

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PTPN7 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western blot analysis of anti-PTPN7 Antibody in Jurkat cell line lysates (35ug/lane). PTPN7 (arrow) was detected using the purified Pab (1:60 dilution).

