

PTPN7 Antibody (S44)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7599a

Product Information

Application	WB, IHC-P, E
Primary Accession	P35236
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11327
Calculated MW	40529
Antigen Region	22-51

Additional Information

Gene ID	5778
Other Names	Tyrosine-protein phosphatase non-receptor type 7, Hematopoietic protein-tyrosine phosphatase, HEPTP, Protein-tyrosine phosphatase LC-PTP, PTPN7
Target/Specificity	This PTPN7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-51 amino acids from human PTPN7.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PTPN7 Antibody (S44) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTPN7
Function	Protein phosphatase that acts preferentially on tyrosine- phosphorylated MAPK1. Plays a role in the regulation of T and B- lymphocyte development and signal transduction.

Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton
Tissue Location	Expressed exclusively in thymus and spleen.

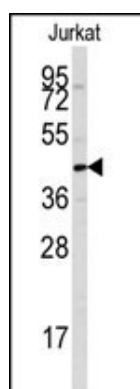
Background

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.

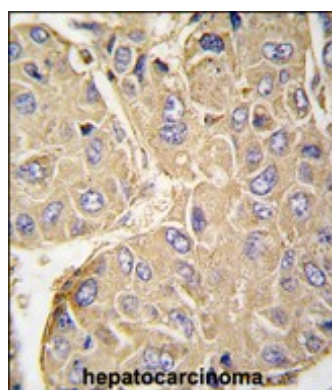
References

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 Mustelin,T., J. Mol. Biol. 354 (1), 150-163 (2005)
 Pettiford,S.M., Leukemia 17 (2), 366-378 (2003)
 Kosaki,K., J. Clin. Endocrinol. Metab. 87 (8), 3529-3533 (2002)

Images



Western blot analysis of anti-PTPN7 Antibody (S44)(Cat.#AP7599a) in Jurkat cell line lysates (35ug/lane).PTPN7 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PTPN7 Antibody (S44) (Cat.#AP7599a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.