

PTPN7 Antibody (S44)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7599a

Specification

PTPN7 Antibody (S44) - Product Information

Application	WB, IHC-P,E
Primary Accession	P35236
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40529
Antigen Region	22-51

PTPN7 Antibody (S44) - 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~~1:10~50

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.

PTPN7 Antibody (S44) - 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

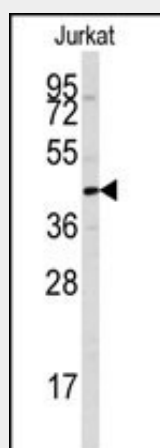
Tissue Location

Expressed exclusively in thymus and spleen.

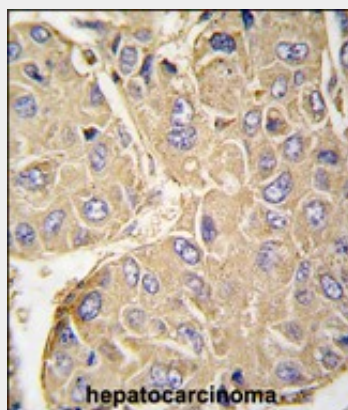
PTPN7 Antibody (S44) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTPN7 Antibody (S44) - 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.

PTPN7 Antibody (S44) - 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.

PTPN7 Antibody (S44) - References

- Eswaran,J., Biochem. J. 395 (3), 483-491 (2006)
- 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)