

## Rabbit anti-Human PTPN7 Polyclonal Antibody | anti-PTPN7 antibody

PTPN7 Antibody (S44)

|                               |                       |                            |                                                                  |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA287448</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

PTPN7; Polyclonal Antibody; PTPN7 Antibody (S44); Tyrosine-protein phosphatase non-receptor type 7; Hematopoietic protein-tyrosine phosphatase; HEPTP; Protein-tyrosine phosphatase LC-PTP; anti-PTPN7 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                   |
| Isotype                                         | Rabbit Ig                                                                                                                                                                    |
| Specificity                                     | This PTPN7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-51 amino acids from human PTPN7.                                  |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/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. |
| Concentration                                   | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                              | 22-51                                                                                                                                                                        |
| Sequence Length                                 | 399                                                                                                                                                                          |
| Applicable Applications for anti-PTPN7 antibody | IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                                                         |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                  | HUMAN                                                                                                                                                                        |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |

### IMAGES



#### IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PTPN7 Antibody (S44), 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.



#### WB (Western Blot)

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

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PTPN7 antibody | 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. |
| Product Categories/Family for anti-PTPN7 antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                          | Eswaran,J., Biochem. J. 395 (3), 483-491 (2006)<br>Mustelin,T., J. Mol. Biol. 354 (1), 150-163 (2005)<br>Pettiford,S.M., Leukemia 17 (2), 366-378 (2003)<br>Kosaki,K., J. Clin. Endocrinol. Metab. 87 (8), 3529-3533 (2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| NCBI GI #                        | 18375660                                                   |
| NCBI GeneID                      | 5778                                                       |
| NCBI Accession #                 | NP_542155.1                                                |
| NCBI GenBank Nucleotide #        | NM_080588.2                                                |
| UniProt Accession #              | P35236; Q53XK4; Q5SXQ0; Q5SXQ1; Q9BV05; B3KXE1             |
| Molecular Weight                 | 40529                                                      |
| NCBI Official Full Name          | tyrosine-protein phosphatase non-receptor type 7 isoform 2 |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, non-receptor type 7          |
| NCBI Official Symbol             | PTPN7                                                      |
| NCBI Official Synonym Symbols    | LPTP; HEPTP; PTPNI; BPTP-4; LC-PTP                         |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type 7           |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type 7           |
| UniProt Gene Name                | PTPN7                                                      |
| UniProt Synonym Gene Names       | HEPTP                                                      |
| UniProt Entry Name               | PTN7_HUMAN                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptpn7-antibody-immunohistochemistry-western-blot-elisa/287448>