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Box 1 | Basic Info

Cat. No.	ABP-PAB-10723
Animal ID	RB0605-0606
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_002832
Amount	100 µg

Alternative Name(s): LPTP, HEPTP, PTPNI, BPTP-4, LC-PTP, hematopoietic protein-tyrosine phosphatase

PTPN7, Protein tyrosine phosphatase non-receptor type 7 polyclonal antibody

Protein tyrosine phosphatase non-receptor type 7 (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 non catalytic N-terminus of PTPN7 can interact with MAP kinases and suppress the MAP kinase activities. PTPN7 is also involved in the regulation of T cell antigen receptor (TCR) signaling, which probably functions through de-phosphorylating the molecules related to MAP kinase pathway.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of aminoacids 1286 - 1301 [DEQSIGLKDSL LAHSS] of the human protein tyrosine phosphatase receptor type F (PTPRF) protein.

Application:

Tested by peptide-specific ELISA (1:1,000).Storage

Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Saxena M, Williams S, Brockdorff J, Gilman J, Mustelin T: Inhibition of T cell signaling by mitogen-activated protein kinase-targeted hematopoietic tyrosine phosphatase (HePTP). *J. Biol. Chem.* 274(17): 11693-11700 (1999).
2. Saxena M, Williams S, Gilman J, Mustelin T: Negative regulation of T cell antigen receptor signal transduction by hematopoietic tyrosine phosphatase (HePTP). *J. Biol. Chem.* 273(25): 15340-15344 (1998).
3. Swieter M, Berenstein EH, Swaim WD, Siraganian RP: Aggregation of IgE receptors in rat basophilic leukemia 2H3 cells induces tyrosine phosphorylation of the cytosolic protein-tyrosine phosphatase HePTP. *J. Biol. Chem.* 270 (37): 21902-21906 (1995).
4. Zanke B, Suzuki H, Kishihara K, Mizzen L, Minden M, Pawson A, Mak TW: Cloning and expression of an inducible lymphoid-specific, protein tyrosine phosphatase (HePTPase). *Eur. J. Immunol.* 22(1): 235-239 (1992).