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phospho-PTPN7 (Ser246) Rabbit pAb

Catalog # AP96973

Product Information

Application	WB
Primary Accession	Q8BUM3
Other Accession	Q8BUM3
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40351
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from mouse PTPN7 around the phosphorylation site of Ser246
Epitope Specificity	CR(p-S)VK
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Contains 1 tyrosine-protein phosphatase domain.
SUBUNIT	Monomer. Interacts with MAPK1, MAPK3 and several other MAP kinases.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene 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. This gene 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 this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

Additional Information

Gene ID	320139
Other Names	BPTP-4; HEPTP; LC-PTP; LPTP; PTPNI; C920001D21Rik; Lcptp; PTN7_HUMAN; PTPN7; Hematopoietic protein-tyrosine phosphatase (HEPTP); Protein-tyrosine phosphatase LC-PTP; 3.1.3.48; PTN7_MOUSE; PTN7_RAT; protein tyrosine phosphatase non-receptor type 7; PTPN7 (phospho-S246); p-PTPN7; phospho-PTPN7; PTPN7 (phospho-Ser246)
Dilution	WB=1:500-2000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Ptpn7
Function	May play a role in the regulation of T and B-lymphocyte development and signal transduction.
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Note=Oxidized form is preferentially associated with actin cytoskeleton
Tissue Location	Expressed in bone marrow-derived mast cells.

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