

Active Recombinant Full Length Human PTPN2, GST-tagged

Cat. No. PTPN2-1519H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human PTPN2 was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1-415 a.a.
Description	Protein tyrosine phosphatase, non-receptor type 2 (PTPN2), is one of the most abundant mammalian tyrosine phosphatase. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. By virtue of protein tyrosine phosphatase activity, PTPN2 is known to be a signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation involved in cell communication and signal transduction.
Form	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 30% glycerol.
Bio-activity	8150 nmol/min/mg
Molecular Mass	~69 kDa
Purity	>85%

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Applications	Phosphatase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	PTPN2 protein tyrosine phosphatase, non-receptor type 2 [Homo sapiens]
Official Symbol	PTPN2
Synonyms	PTPN2; protein tyrosine phosphatase, non-receptor type 2; PTPT; tyrosine-protein phosphatase non-receptor type 2; TC PTP; TCELLPTP; TCPTP; T-cell protein tyrosine phosphatase; PTN2; TC-PTP;
Gene ID	5771
mRNA Refseq	NM_001207013
Protein Refseq	NP_001193942
MIM	176887
UniProt ID	P17706
Chromosome Location	18p11.3-p11.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Immune System,

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organism-specific biosystem; Interferon Signaling, organism-specific biosystem;
Interferon gamma signaling, organism-specific biosystem; Regulation of IFNG
signaling, organism-specific biosystem;

Function

hydrolase activity; non-membrane spanning protein tyrosine phosphatase activity;
protein binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase
activity; receptor activity;

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