Recombinant Human PTPN11, GST-tagged, Active

Cat. No. PTPN11-461H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPN11 (246-593) was expressed in*E.coli*cells using a N-terminal GST tag. MW = 69 kDa.
Species	Human
Source	E.coli
ProteinLength	246-593 a.a.
Description	Mammalian PTPases can be subdivided into 1 of 2 broad categories: transmembrane receptor PTPases and intracellular PTPases. PTPN11 is one of the 2 closely related mammalian intracellular PTPases whose sequences encode 2 tandem SRC homology 2 (SH2) domains that are located at the amino-terminal side of a single PTPase catalytic domain. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration.
Sequence	246-593.
Applications	Phosphatase Assay, Western Blot.
Storage And Stability	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	PTPN11 protein tyrosine phosphatase, non-receptor type 11 [Homo sapiens]
Synonyms	protein tyrosine phosphatase, non-receptor type 11; CFC; NS1; SHP2; BPTP3; PTP2C; PTP-1D; SH-PTP2; SH-PTP3; MGC14433; PTPN11; protein tyrosine phosphatase-2; protein-tyrosine phosphatase 2C; EC 3.1.3.48; PTP-2C; SHP-2; SHPTP2; Shp2; Noonan syndrome 1; Protein-tyrosine phosphatase 2C
Gene ID	5781
mRNA Refseq	NM_002834
Protein Refseq	NP_002825
MIM	176876
UniProt ID	Q06124
Chromosome Location	12q24
Pathway	Adipocytokine signaling pathway; Chronic myeloid leukemia; Epithelial cell signaling in Helicobacter pylori infection; Jak-STAT signaling pathway; Leukocyte transendothelial migration; Natural killer cell mediated cytotoxicity; Neurotrophin signaling pathway; Renal cell carcinoma
Function	hydrolase activity; insulin receptor binding; insulin receptor substrate binding; non-membrane spanning protein tyrosine phosphatase activity; peptide hormone receptor binding; phospholipase binding; protein domain specific binding

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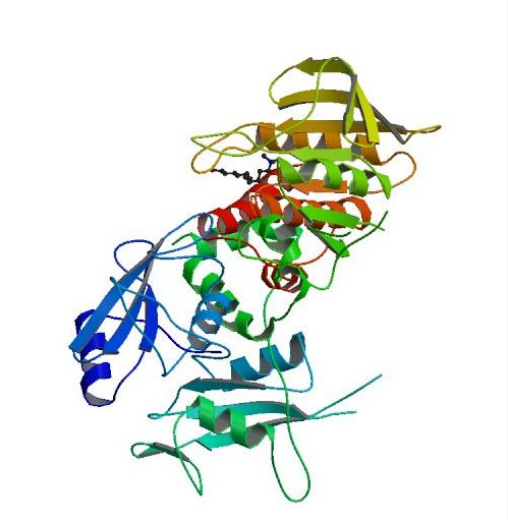
PDB rendering based on 2shp	

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