

## Active Recombinant Human PTPN11 Protein(Full length), N-GST-tagged

Cat. No. PTPN11-04H Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant full-length human PTPN11 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

#### Species

Human

#### Source

Sf9 Cells

#### ProteinLength

1-593 a.a.

#### Description

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 PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. 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. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia.

#### Bio-activity

7,800 nmol/min/mg

#### Molecular Mass

98 kDa

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<b>Purity</b>	The purity was determined to be > 90% by densitometry.
<b>Applications</b>	Phosphatase Assay, Western Blot
<b>Stability</b>	One year at -70 centigrade from date of shipment.
<b>Storage</b>	Store product at -70 centigrade. 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.
<b>Concentration</b>	0.1 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 20 mM MOPS, pH 7.5, 300 mM NaCl, 10 mM glutathione, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPN11 protein tyrosine phosphatase non-receptor type 11 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">PTPN11</a>
<b>Synonyms</b>	PTPN11; protein tyrosine phosphatase non-receptor type 11; CFC; NS1; JMML; SHP2; BPTP3; PTP2C; METCDS; PTP-1D; SH-PTP2; SH-PTP3; tyrosine-protein phosphatase non-receptor type 11; SH2 domain-containing protein tyrosine phosphatase 2; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C; EC 3.1.3.48
<b>Gene ID</b>	<a href="#">5781</a>
<b>mRNA Refseq</b>	<a href="#">NM_002834</a>

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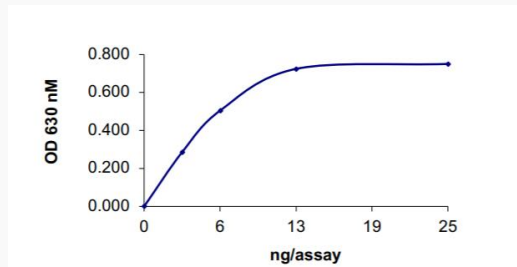
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Protein Refseq** NP\_002825

**MIM** 176876

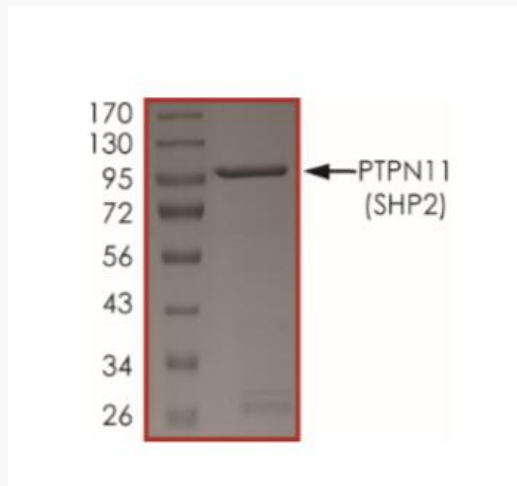
**UniProt ID** Q06124

**Biological Activity**



The specific activity of PTPN11 was determined to be 7,800 nmol phosphate released/min/mg as per activity assay protocol.

**Purity**



The purity was determined to be > 90% by densitometry. Approx. MW 98 kDa.

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