



## PTPN11 blocking peptide (CDBP6100)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]
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<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Used as a blocking peptide in immunoblotting applications.
<b>Format</b>	Liquid
<b>Concentration</b>	200 µg/mL
<b>Size</b>	0.05 mg
<b>Preservative</b>	None
<b>Storage</b>	-20°C

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPN11 protein tyrosine phosphatase, non-receptor type 11 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PTPN11

<b>Synonyms</b>	PTPN11; protein tyrosine phosphatase, non-receptor type 11; CFC; NS1; SHP2; BPTP3; PTP2C; PTP-1D; SH-PTP2; SH-PTP3; tyrosine-protein phosphatase non-receptor type 11; PTP-2C; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C
<b>Entrez Gene ID</b>	<a href="#">5781</a>
<b>mRNA Refseq</b>	<a href="#">NM_002834</a>
<b>Protein Refseq</b>	<a href="#">NP_002825</a>
<b>UniProt ID</b>	Q06124
<b>Pathway</b>	Activated TLR4 signalling; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon; Adaptive Immune System; Adipocytokine signaling pathway; Angiopoietin receptor Tie2-mediated signaling; Axon guidance; B Cell Receptor Signaling Pathway; BDNF signaling pathway
<b>Function</b>	D1 dopamine receptor binding; SH3/SH2 adaptor activity; insulin receptor binding; insulin receptor substrate binding; non-membrane spanning protein tyrosine phosphatase activity; non-membrane spanning protein tyrosine phosphatase activity; peptide hormone receptor binding; phospholipase binding; phosphoprotein phosphatase activity; protein binding; protein domain specific binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; receptor tyrosine kinase binding