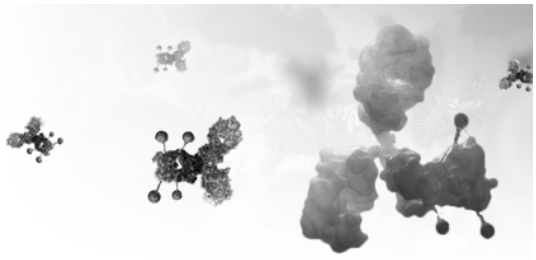

Human PTPN11 blocking peptide (CDBP2667)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-SHP2/PTPN11 antibody
Antigen 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	PTPN11 protein tyrosine phosphatase, non-receptor type 11 [Homo sapiens (human)]

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Official Symbol	PTPN11
Synonyms	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;
Entrez Gene ID	5781
mRNA Refseq	NM_002834.3
Protein Refseq	NP_002825.3
UniProt ID	Q06124
Chromosome Location	12q24
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BDNF sig
Function	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

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