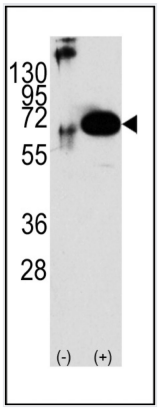
PTPN11 Antibody – Rabbit Polyclonal

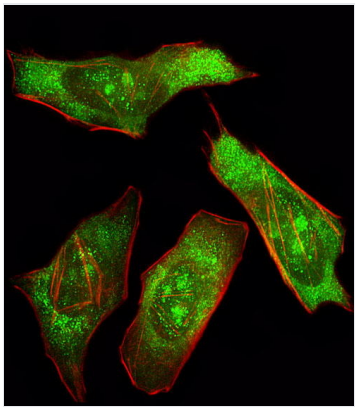
PRODUCT OVERVIEW

Product Name	PTPN11, Polyclonal Antibody
Full Product Name	PTPN11 (Tyrosine-protein Phosphatase Non-receptor Type 11, Protein-tyrosine Phosphatase 2C, PTP-2C, Protein-tyrosine Phosphatase 1D, PTP-1D, SH-PTP3, SH-PTP2, SHP-2, Shp2, SHPTP2, PTP2C) (MaxLight 550)
Product Gene Name	anti-PTPN11 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human PTPN11.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	52,828 Da
OMIM	151100
3D Structure	ModBase 3D Structure for Q06124
Immunogen	Recombinant protein corresponding to partial human PTPN11.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PTPN11 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PTPN11 antibody	FLISA, Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Application Notes for anti-PTPN11 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PTPN11 antibody	SHP2, also known as PTPN11, 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 the gene are a cause of Noonan syndrome as well as acute myeloid leukemia.
Product References and Citations for anti-PTPN11 antibody	1. Chan, R.J., et al., Blood 105(9):3737-3742 (2005). 2. Sturla, L.M., et al., J. Biol. Chem. 280(15):14597-14604 (2005). 3. Loh, M.L., et al., Leuk. Res. 29(4):459-462 (2005). 4. Wang, Q., et al., J. Biol. Chem. 280(9):8397-8406 (2005). 5. Niihori, T., et al., J. Hum. Genet. 50(4):192-202 (2005).

Other Notes	Small volumes of anti-PTPN11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTPN11 purchase	MBS6495781 is an antibody targeting PTPN11. Also known as PTPN11 (Tyrosine-protein Phosphatase Non-receptor Type 11, Protein-tyrosine Phosphatase 2C, PTP-2C, Protein-tyrosine Phosphatase 1D, PTP-1D, SH-PTP3, SH-PTP2, SHP-2, Shp2, SHPTP2, PTP2C) (MaxLight 550). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PTPN11 antibody
Western Blot analysis of PTPN11 in 293 cell lysates (2ug/lane) using P9109-29B: Lane 1: nontransfected Lane 2: transiently transfected with the PTPN11 gene.



Immunofluorescence (IF) of anti-PTPN11 antibody
Immunofluorescence staining of Hela cells. Cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated for 1hr at 37 degree C with MBS629273 (1:25). Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C) as secondary antibody. Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). PTPN11 immunoreactivity is significantly localized to nucleolus and cytoplasm and is weakly localized to the nucleus.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPN11. It may not necessarily be applicable to this product.

NCBI GI #	33356177
NCBI GeneID	5781
NCBI Accession #	NP_002825
UniProt Primary Accession #	Q06124
UniProt Secondary Accession #	Q96HD7; A8K1D9
UniProt Related Accession #	Q06124
GenBank Nucleotide #	NM_002834.3
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 11 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 11
NCBI Official Symbol	PTPN11
NCBI Official Synonym Symbols	CFC; NS1; SHP2; BPTP3; PTP2C; PTP-1D; SH-PTP2; SH-PTP3
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 11
UniProt Synonym Protein Names	Protein-tyrosine phosphatase 1D; PTP-1D; Protein-tyrosine phosphatase 2C; PTP-2C; SH-PTP2; SHP-2; Shp2; SH-PTP3
Protein Family	Tyrosine-protein phosphatase non-receptor
UniProt Gene Name	PTPN11
UniProt Synonym Gene Names	PTP2C; SHPTP2; PTP-1D; PTP-2C; SHP-2; Shp2

UniProt Entry Name	PTN11_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 11; PTP-2C; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C
NCBI Summary for PTPN11	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]
UniProt Comments for PTPN11	SHP-2: a SH2-containing a ubiquitously expressed tyrosine-specific protein phosphatase. It participates in signaling events downstream of receptors for growth factors, cytokines, hormones, antigens and extracellular matrices in the control of cell growth, differentiation, migration, and death. Activation of SHP-2 and its association with Gab1 is critical for sustained Erk activation downstream of several growth factor receptors and cytokines. Protein type: EC 3.1.3.48; Protein phosphatase, tyrosine (non-receptor); Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 12q24 Cellular Component: protein complex; mitochondrion; cytoplasm; cytosol; nucleus Molecular Function: protein domain specific binding; protein binding; phospholipase binding; SH3/SH2 adaptor activity; peptide hormone receptor binding; insulin receptor substrate binding; non-membrane spanning protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; receptor tyrosine kinase binding; phosphoprotein phosphatase activity; D1 dopamine receptor binding; insulin receptor binding Biological Process: axon guidance; nerve growth factor receptor signaling pathway; hormone-mediated signaling; activation of MAPK activity; heart development; platelet-derived growth factor receptor signaling pathway; positive regulation of mitotic cell cycle; reproductive process in a multicellular organism; glucose homeostasis; regulation of protein export from nucleus; negative regulation of insulin secretion; regulation of cell adhesion mediated by integrin; ephrin receptor signaling pathway; abortive mitotic cell cycle; inner ear development; negative regulation of cell adhesion mediated by integrin; negative regulation of growth hormone secretion; epidermal growth factor receptor signaling pathway; integrin-mediated signaling pathway; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; cytokine and chemokine mediated signaling pathway; positive regulation of hormone secretion; regulation of multicellular organism growth; negative regulation of cortisol secretion; organ growth; genitalia development; triacylglycerol metabolic process; DNA damage checkpoint; T cell costimulation; insulin receptor signaling pathway; innate immune response; hormone metabolic process; brain development; platelet formation; blood coagulation; leukocyte migration Disease: Metachondromatosis; Noonan Syndrome 1; Juvenile Myelomonocytic Leukemia; Leopard Syndrome 1
Research Articles on PTPN11	**1.** Data suggest an important role of SHP2 in the molecular etiology of breast tumor growth.
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