

Human PTPN11 Knockdown Cell Lysate

Cat. No. PTPN11-283HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated PTPN11 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	68 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PTPN11 KD HeLa cell lysate
Protein Families	Druggable Genome, Phosphatase
Protein Pathways	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
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	PTPN11 protein tyrosine phosphatase, non-receptor type 11 [Homo sapiens (human)]
Official Symbol	PTPN11
Synonyms	PTPN11; protein tyrosine phosphatase, non-receptor type 11; Noonan syndrome 1, NS1; tyrosine-protein phosphatase non-receptor type 11; BPTP3; PTP2C; SH PTP2; SHP 2; SHP2; PTP-2C; protein tyrosine phosphatase-2; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C; CFC; NS1; PTP-1D; SH-PTP2; SH-PTP3; MGC14433;
Gene ID	5781

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mRNA Refseq	NM_002834
Protein Refseq	NP_002825
MIM	176876
UniProt ID	Q06124

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