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Product datasheet for TA501914

SHP2 (PTPN11) Mouse Monoclonal Antibody [Clone ID: OTI1F7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1F7
Applications:	FC, WB
Recommend Dilution:	WB 1:1000, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PTPN11(NP_002825) produced in HEK293T cell.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.86 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	67.8 kDa
Gene Name:	protein tyrosine phosphatase non-receptor type 11
Database Link:	NP_002825 Entrez Gene 5781 Human
Background:	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. [provided by RefSeq]
Synonyms:	BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2
Protein Families:	Druggable Genome, Phosphatase

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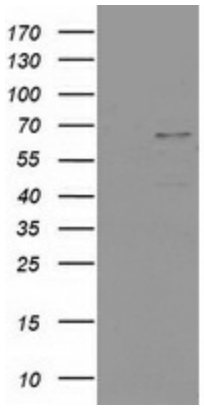
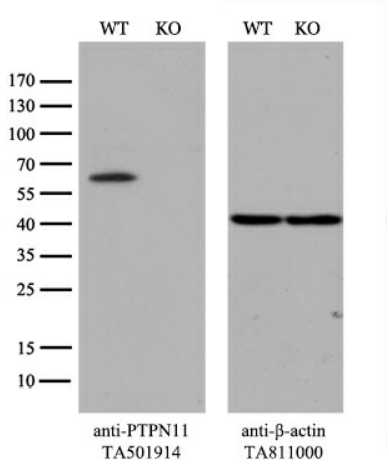
Protein Pathways: Adipocytokine signaling pathway, Chronic myeloid leukemia, Epithelial cell signaling in Helicobacter pylori infection, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Renal cell carcinoma

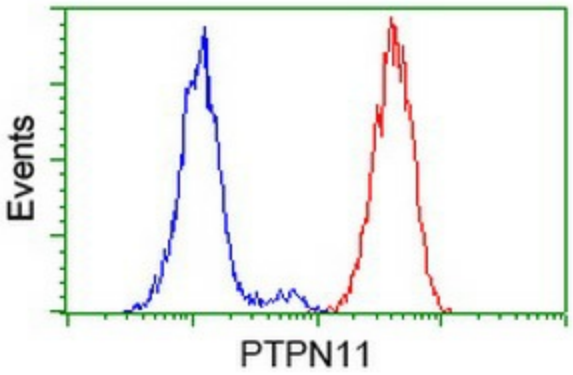
Product images:



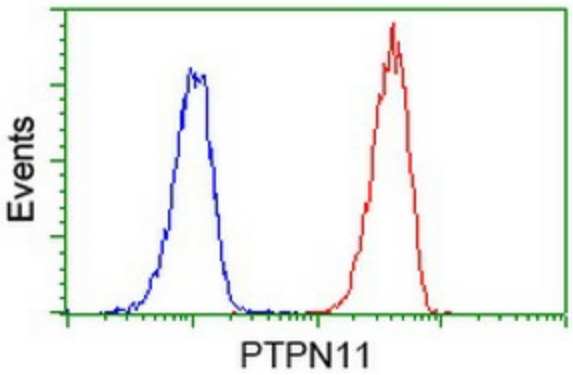
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PTPN11 ([RC220029], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTPN11.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and PTPN11-Knockout 293T cells (KO, Cat# [LC811214]) were separated by SDS-PAGE and immunoblotted with anti-PTPN11 monoclonal antibody TA501914, (1:500). Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control.



Flow cytometric Analysis of Hela cells, using anti-PTPN11 antibody (TA501914), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-PTPN11 antibody (TA501914), (Red), compared to a nonspecific negative control antibody ([TA50011]), (Blue).