

Product Name: KD-Validated PTPN11 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00725

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 68.0kDa

Antigen Information

Gene Name	PTPN11 PTPN11; Protein Tyrosine Phosphatase Non-Receptor Type 11; SH-PTP2; PTP2C; BPTP3; SHP-2; SHP2; SH2 Domain-Containing Protein Tyrosine Phosphatase 2; Tyrosine-Protein
Alternative Names	Phosphatase Non-Receptor Type 11; Protein-Tyrosine Phosphatase 1D; Protein-Tyrosine Phosphatase 2C; EC 3.1.3.48; SH-PTP3; PTP-1D; NS1; Protein Tyrosine Phosphatase, Non-Receptor Type 11; Noonan Syndrome 1; METCDS; SHPTP2; PTP-2C; JMML; Shp2; CFC
Gene ID	5781.0
SwissProt ID	Q06124
Immunogen	A synthesized peptide derived from human SHP2

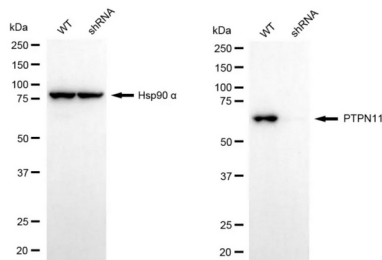
Background

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, Aug 2016]

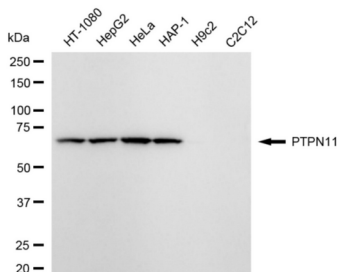
Research Area

Signal Transduction, Neuroscience

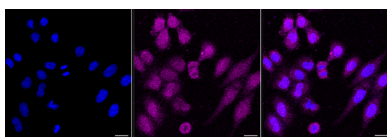
Image Data



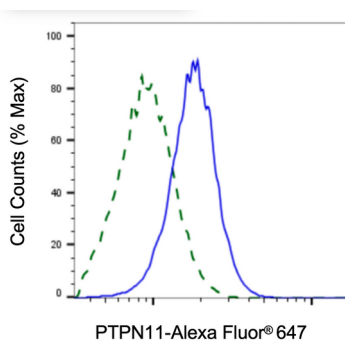
Western blotting analysis using PTPN11 antibody (KVA00725). PTPN11 expression in wild type (WT) and PTPN11 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PTPN11 antibody (KVA00725, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



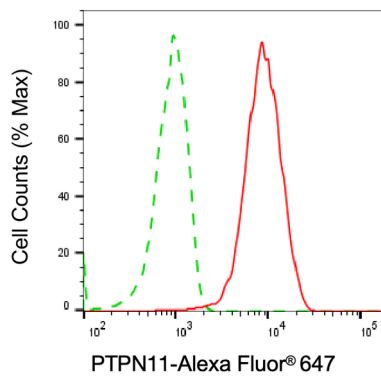
Western blotting analysis using PTPN11 antibody (KVA00725). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PTPN11 antibody (KVA00725, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. PTPN11, protein tyrosine phosphatase non-receptor type 11.



Immunocytochemical staining of HepG2 cells with PTPN11 protein antibody (KVA00725, 1:1,000). Nuclei were stained blue with DAPI; PTPN11 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of PTPN11 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with PTPN11 antibody (KVA00725, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PTPN11 expression in HepG2 cells using PTPN11 antibody (KVA00725, 1:2,000). Green, isotype control; red,PTPN11.