

Product Name: KO-Validated PTPN6 Mouse Monoclonal Antibody**Catalog #: KVA01895**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse 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 1:500-1:2,500; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 67.6kDa

Antigen Information

Gene Name	PTPN6
Alternative Names	PTPN6; Protein Tyrosine Phosphatase Non-Receptor Type 6; PTP-1C; HCP; SHP-1; HCPH; SHP1; Tyrosine-Protein Phosphatase Non-Receptor Type 6; Hematopoietic Cell Protein-Tyrosine Phosphatase; Protein-Tyrosine Phosphatase SHP-1; Protein-Tyrosine Phosphatase 1C; EC 3.1.3.48; SH-PTP1; Hematopoietic Cell Phosphatase; HPTP1C; SHP-1L; PTP1C
Gene ID	5777.0
SwissProt ID	P29350
Immunogen	Recombinant protein of human PTPN6

Background

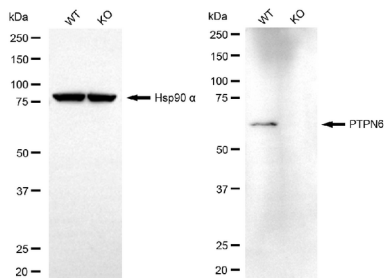
The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling

molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phosphotyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]

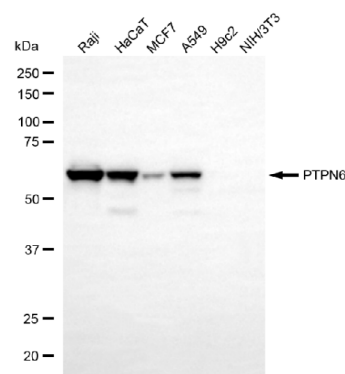
Research Area

Cell Biology, Signal Transduction, Cancer, Developmental Biology

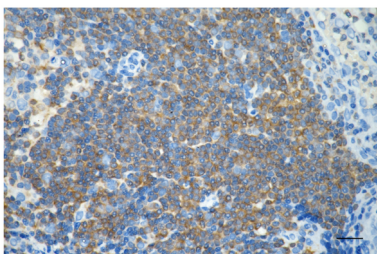
Image Data



Western blotting analysis using PTPN6 antibody (KVAb01895). PTPN6 expression in wild type (WT) and PTPN6 knockout (KO) HeLa cells with 40 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PTPN6 antibody (KVAb01895, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PTPN6 antibody (KVAb01895). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PTPN6 antibody (KVAb01895, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human tonsillitis using PTPN6 antibody (KVAb01895, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.