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PTPN11 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6856B

Specification

PTPN11 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q06124
Other Accession	P41499, P35235, Q90687
Reactivity	**Human, Mouse**
Predicted	**Chicken, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**68011**
Antigen Region	**520-547**

PTPN11 Antibody (C-term) - Additional Information

Gene ID 5781

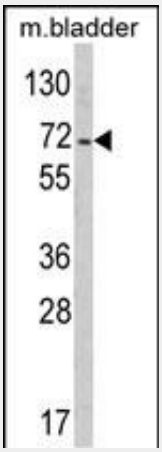
Other Names
Tyrosine-protein phosphatase non-receptor type 11, Protein-tyrosine phosphatase 1D, PTP-1D, Protein-tyrosine phosphatase 2C, PTP-2C, SH-PTP2, SHP-2, Shp2, SH-PTP3, PTPN11, PTP2C, SHPTP2

Target/Specificity
This PTPN11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 520-547 amino acids from the C-terminal region of human PTPN11.

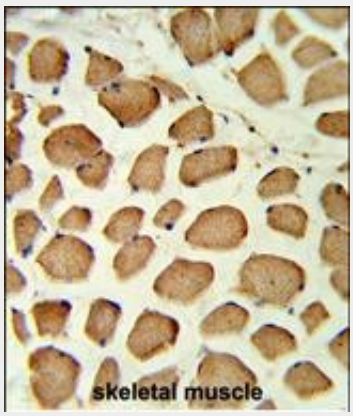
Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2



Western blot analysis of PTPN11 Antibody (C-term) (Cat. #AP6856b) in mouse bladder tissue lysates (35ug/lane). PTPN11 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PTPN11 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PTPN11 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

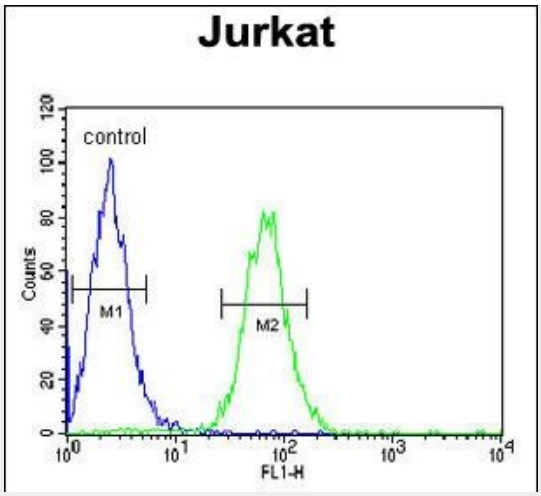
PTPN11 Antibody (C-term) - Protein Information

Name PTPN11

Synonyms PTP2C, SHPTP2

Function
Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed:10655584, PubMed:18559669, PubMed:18829466, PubMed:26742426, PubMed:28074573). Positively regulates MAPK signal transduction pathway (PubMed:28074573). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:28074573). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:18559669). Dephosphorylates CDC73 (PubMed:26742426). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity).

Cellular Location
Cytoplasm. Nucleus



PTPN11 Antibody (C-term) (Cat. #AP6856b) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PTPN11 Antibody (C-term) - Background

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 ansformation. 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.

PTPN11 Antibody (C-term) - References

Rikova,K., et.al., Cell 131 (6), 1190-1203 (2007)

Tissue Location
Widely expressed, with highest levels in heart, brain, and skeletal muscle.

PTPN11 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture