

Datasheet for ABIN3043912
anti-PTPN11 antibody (N-Term)



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4 Images

Overview

Quantity:	100 µg
Target:	PTPN11
Binding Specificity:	AA 69-99, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN11 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tyrosine-protein phosphatase non-receptor type 11(PTPN11) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human SHP2 (69-99aa EKFNATLAELVQYYMEHHGQLKEKNGDVIELK), identical to the related mouse and rat sequences.
Sequence:	EKFNATLAELV QYYMEHHGQL KEKNGDVIEL K
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tyrosine-protein phosphatase non-receptor type 11(PTPN11) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: protein tyrosine phosphatase, non-receptor type 11 Protein Name: Tyrosine-protein phosphatase non-receptor type 11

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: PTPN11

Alternative Name: PTPN11 ([PTPN11 Products](#))

Target Type: Viral Protein

Background: PTPN11 (Tyrosine-protein phosphatase non-receptor type 11), also known as protein-tyrosine phosphatase 1D (PTP-1D), protein-tyrosine phosphatase 2C (PTP-2C), TYROSINE PHOSPHATASE SHP2 (SHP2), BPTP3, SH-PTP2, SHP-2, SH-PTP3, is an enzyme that in humans is encoded by the PTPN11 gene. PTPN11 is a member of the protein tyrosine phosphatase (PTP) family. The open reading frame consists of 1,779 nucleotides potentially encoding a protein of 593 amino acids with a predicted molecular mass of 68 kD. 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.

Synonyms: BPTP 3 antibody|BPTP3 antibody|CFC antibody|MGC14433 antibody|Noonan syndrome 1 antibody|Noonan syndrome 1 protein tyrosine phosphatase 2C antibody|NS 1 antibody|NS1 antibody|OTTHUMP00000166107 antibody|OTTHUMP00000166108 antibody|Protein tyrosine phosphatase 2 antibody|Protein tyrosine phosphatase 2C antibody|Protein Tyrosine Phosphatase Non receptor Type 11 antibody|Protein-tyrosine phosphatase 1D antibody|Protein-tyrosine phosphatase 2C antibody|PTN11_HUMAN antibody|PTP 1D antibody|PTP 2C antibody|PTP-1D antibody|PTP-2C antibody|PTP1D antibody|PTP2C antibody|PTPN 11 antibody|PTPN11 antibody|PTPN11 antibody|SAP2 antibody|SH PTP2 antibody|SH PTP3 antibody|SH-PTP2 antibody|SH-PTP3 antibody|SH2 domain containing protein tyrosine phosphatase 2 antibody|SHIP2 antibody|SHP 2 antibody|SHP-2 antibody|Shp2 antibody|SHPTP 2 antibody|SHPTP2 antibody|SHPTP3 antibody|SIT protein precursor antibody| Syp antibody|Tyrosine protein phosphatase non receptor type 11 antibody|Tyrosine-protein phosphatase non-receptor type 11 antibody

Target Details

Gene ID:	5781
UniProt:	Q06124
Pathways:	JAK-STAT Signaling , RTK Signaling , TCR Signaling , Interferon-gamma Pathway , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , Toll-Like Receptors Cascades , CXCR4-mediated Signaling Events , Signaling Events mediated by VEGFR1 and VEGFR2 , Signaling of Hepatocyte Growth Factor Receptor , VEGFR1 Specific Signals , BCR Signaling , Warburg Effect

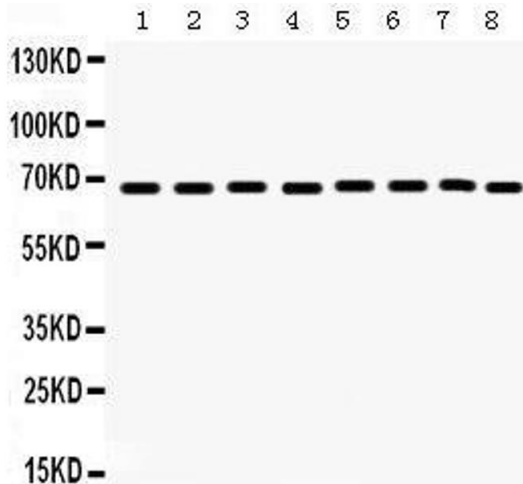
Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

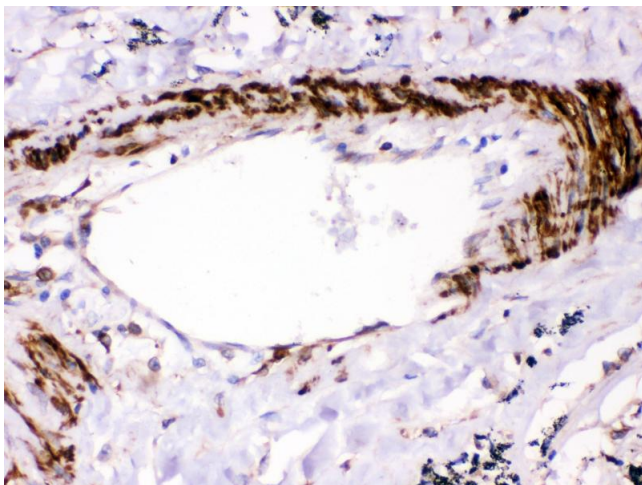
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.

It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



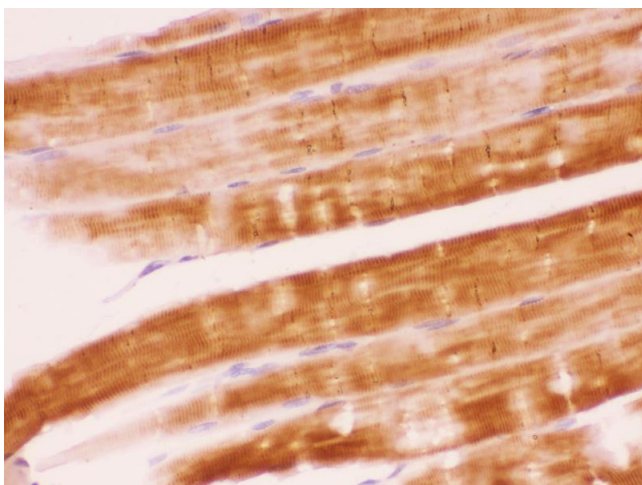
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- SHP2 Picoband antibody,IHC(P) IHC(P): Human Lung Cancer Tissue



Immunohistochemistry

Image 3. Anti- SHP2 Picoband antibody,IHC(P) IHC(P): Rat Skeletal Muscle Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043912.