

Datasheet for ABIN968069

anti-PTPN11 antibody (AA 1-177)[4 Images](#)[5 Publications](#)[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	PTPN11
Binding Specificity:	AA 1-177
Reactivity:	Human, Mouse, Rat, Dog, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTPN11 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human PTP1D (SHP2) aa. 1-177
Clone:	79-PTP1D-SHP2
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken, Frog
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	PTPN11
Alternative Name:	PTP1D (PTPN11 Products)
Target Type:	Viral Protein
Background:	<p>SHP2 (also known as PTP1D, Syp, SHPTP2 and PTP2C) is a member of the cytosolic class of protein-tyrosine phosphatases (PTPs). SHP2 has been reported to contain two SH2 domains where both SH2 domains are N-terminal to the PTP catalytic domain. The expression of SHP2 has been reported to be highest in brain, heart, and kidney. The PTPs are thought to function with other protein-tyrosine kinases to maintain intracellular protein phosphotyrosine homeostasis and cell cycle progression. The presence of SH2 domains in SHP2 (PTP1D) has prompted speculation that binding to specific phosphorylated tyrosine residues is key to its function. SHP2 (PTP1D) is tyrosine- phosphorylated and activated in response to stimulation with EGF or PDGF.</p> <p>Synonyms: PTP1D, Syp, SHPTP2 and PTP2C</p>
Molecular Weight:	65-72 kDa
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

Comment:	Related Products: ABIN968537 , ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL

Handling

Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % 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.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

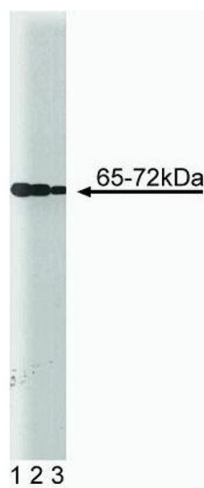
Product cited in: Duchene, Schanstra, Pecher, Pizard, Susini, Esteve, Bascands, Girolami: "A novel protein-protein interaction between a G protein-coupled receptor and the phosphatase SHP-2 is involved in bradykinin-induced inhibition of cell proliferation." in: **The Journal of biological chemistry**, Vol. 277, Issue 43, pp. 40375-83, (2002) ([PubMed](#)).

Kabat, Borrego, Brooks, Coligan: "Role that each NKG2A immunoreceptor tyrosine-based inhibitory motif plays in mediating the human CD94/NKG2A inhibitory signal." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 169, Issue 4, pp. 1948-58, (2002) ([PubMed](#)).

Kontaridis, Liu, Zhang, Bennett: "Role of SHP-2 in fibroblast growth factor receptor-mediated suppression of myogenesis in C2C12 myoblasts." in: **Molecular and cellular biology**, Vol. 22, Issue 11, pp. 3875-91, (2002) ([PubMed](#)).

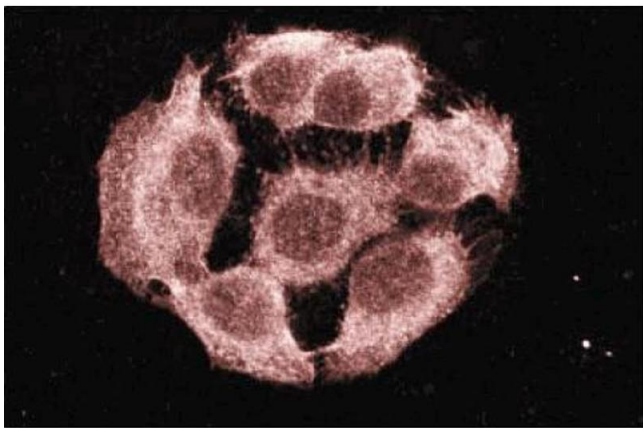
Freeman, Plutzky, Neel: "Identification of a human src homology 2-containing protein-tyrosine-phosphatase: a putative homolog of Drosophila corkscrew." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 89, Issue 23, pp. 11239-43, (1993) ([PubMed](#)).

Vogel, Lammers, Huang, Ullrich: "Activation of a phosphotyrosine phosphatase by tyrosine phosphorylation." in: **Science (New York, N.Y.)**, Vol. 259, Issue 5101, pp. 1611-4, (1993) ([PubMed](#)).



Western Blotting

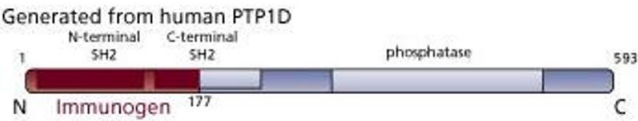
Image 1. Western blot analysis of SHP2 (PTP1D) on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the mouse anti-SHP2 (PTP1D) antibody. SHP2 has been reported to be observable in a range between 65-72 kD.



Immunofluorescence

Image 2. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968069.