

Rabbit PTPN6 Polyclonal Antibody | anti-PTPN6 antibody

PTPN6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA167084	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

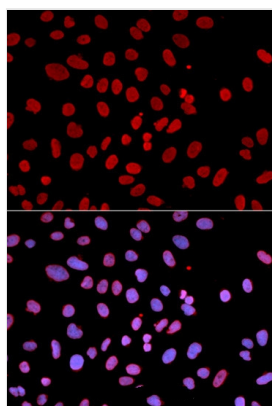
PRODUCT SYNONYMS

PTPN6; Polyclonal Antibody; PTPN6 Antibody; HCP; HCPH; HTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1; anti-PTPN6 antibody

PRODUCT SPECIFICATIONS

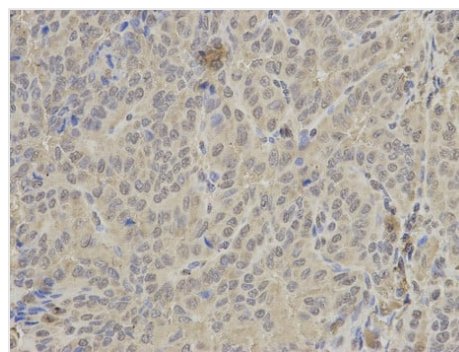
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	595
Applicable Applications for anti-PTPN6 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human PTPN6
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-30810 / sc-287 / sc-33162
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES



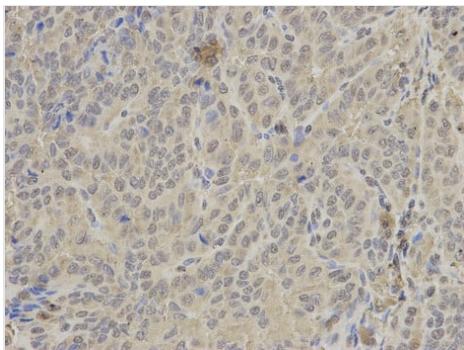
IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cell using PTPN6 antibody. Blue: DAPI for nuclear staining.



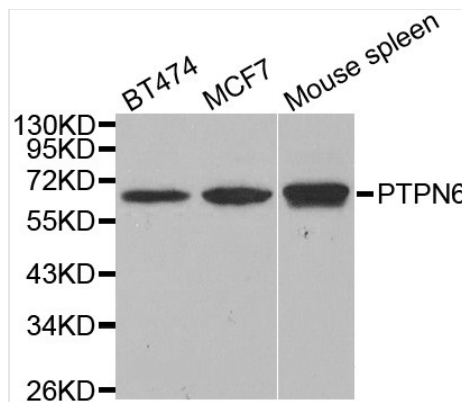
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat brain using PTPN6 antibody at dilution of 1:200 (400x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human esophageal cancer using PTPN6 antibody at dilution of 1:200 (400x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PTPN6 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PTPN6 antibody

SHP-1 (PTPN6) is a non-receptor protein tyrosine phosphatase that is expressed primarily in hematopoietic cells. The enzyme is composed of two SH2 domains, a tyrosine phosphatase catalytic domain, and a carboxy-terminal regulatory domain (1). SHP-1 removes phosphates from target proteins to downregulate several tyrosine kinase-regulated pathways. In hematopoietic cells, the amino-terminal SH2 domain of SHP-1 binds to tyrosine phosphorylated erythropoietin receptors (EpoR) to negatively regulate hematopoietic growth (2). Overexpression of SHP-1 in epithelial cells results in dephosphorylation of the Ros receptor tyrosine kinase and subsequent downregulation of Ros-dependent cell proliferation and transformation (3). Following ligand binding in myeloid cells, SHP-1 associates with the IL-3R beta chain and downregulates IL-3-induced tyrosine phosphorylation and cell proliferation (4). Because SHP-1 downregulates various proliferation pathways, SHP-1 is considered a potential tumor suppressor and angiogenesis regulator (5, 6).

NCBI AND UNIPROT INFORMATION

NCBI GI #	2289910
NCBI GeneID	15170
Molecular Weight	63,179 Da
NCBI Official Full Name	PTPN6
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 6
NCBI Official Symbol	Ptpn6
NCBI Official Synonym Symbols	me; hcp; Hcph; Ptp1C; SHP-1; 70Z-SHP; SH-PTP1; PTPTY-42
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 6; hematopoietic cell protein-tyrosine phosphatase; motheaten; protein-tyrosine phosphatase 1C
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 6
UniProt Gene Name	Ptpn6
UniProt Synonym Gene Names	Hcp; Hcph; Ptp1C; PTP-1C; SHP-1
UniProt Entry Name	PTN6_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptpn6-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/167084>