

Rabbit anti-Human SHP2 Polyclonal Antibody | anti-SHP2 antibody

Phospho-SHP2 (Y584) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290943	Rabbit	Human	ELISA, Dot Blot, Western Blot

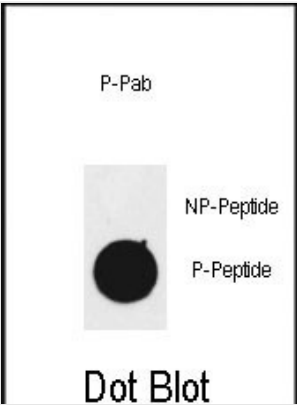
PRODUCT SYNONYMS

SHP2; Polyclonal Antibody; Phospho-SHP2 (Y584) Antibody; PTPN11; PTP2C; SHPTP2; Tyrosine-protein phosphatase non-receptor type 11; Protein-tyrosine phosphatase 1D; Protein-tyrosine phosphatase 2C; SH-PTP2; SH-PTP3; anti-SHP2 antibody

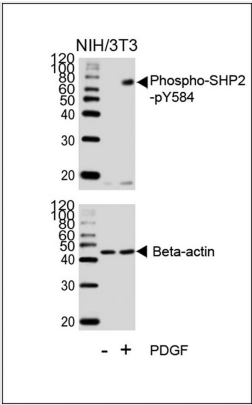
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Ig
Specificity	This SHP2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y584 of human SHP2.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	593
Applicable Applications for anti-SHP2 antibody	ELISA, DB (Dot Blot), WB (Western Blot)
Antigen Source	Human
Antigen Region	574-590
Antigen Type	Synthetic Peptide
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
Tissue Location	Widely expressed, with highest levels in heart, brain, and skeletal muscle.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



DB (Dot Blot)
Dot blot analysis of anti-Phospho-SHP2-pY584 Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.



WB (Western Blot)
Western blot analysis of lysates from mouse NIH/3T3 cell line, untreated or treated with PDGF, using Phospho-SHP2-pY584 (upper) or Beta-actin (lower).

ADDITIONAL INFORMATION

Related Product Information for anti-SHP2 antibody	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab) SHP2 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. 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.
Product Categories/Family for anti-SHP2 antibody	Antibody Collections ; Phospho Antibodies
References	Carver, K.C., et al. J. Biol. Chem. 285(11):8003-8012(2010). Pierpont, E.I., et al. Am. J. Med. Genet. A 152A (3), 591-600 (2010). Rani, D.S., et al. Mitochondrion 10(2):166-173(2010). Bakken, T., et al. Virology 397(2):379-388(2010).

NCBI AND UNIPROT INFORMATION

NCBI GI #	33356177
NCBI GeneID	5781
NCBI Accession #	NP_002825.3; NP_542168.1
NCBI GenBank Nucleotide #	NP_002825.3
UniProt Accession #	Q06124; P41499; P35235
Molecular Weight	Calculated MW: H=45 kDa
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 11 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase non-receptor type 11
NCBI Official Symbol	PTPN11
NCBI Official Synonym Symbols	CFC; NS1; JMML; SHP2; BPTP3; PTP2C; METCD5; PTP-1D; SH-PTP2; SH-PTP3
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 11
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 11
UniProt Gene Name	PTPN11

UniProt Synonym Gene Names	PTP2C; SHPTP2; PTP-1D; PTP-2C; SHP-2; Shp2
UniProt Entry Name	PTN11_HUMAN

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/shp2-antibody-dot-blot-western-blot-elisa/290943>