Anti-Phospho-SHP2 (Tyr542) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015065

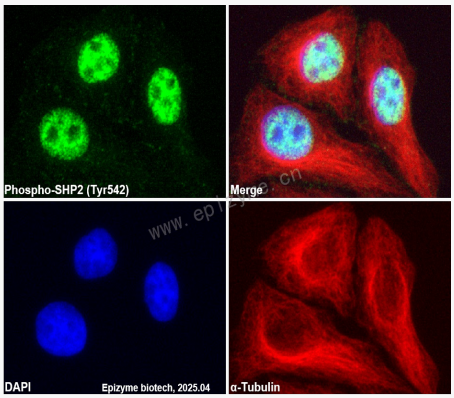
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	15L32H99
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Tyr542 of human SHP2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99] is for research use only and not for use in diagnostic or therapeutic procedures.

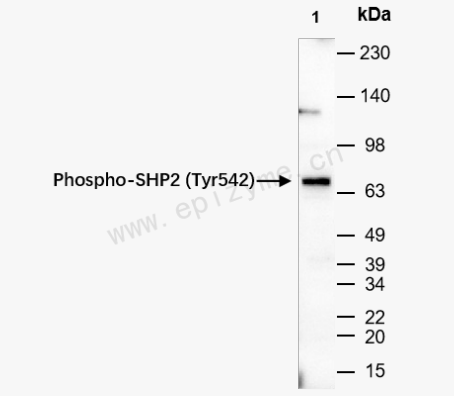
Protein Information

Synonyms	BPTP3, CFC, JMML, METCDS, MGC14433, NS1, OTTHUMP00000166107, OTTHUMP00000166108, Protein tyrosine phosphatase 2, Protein tyrosine phosphatase 2C, Protein tyrosine phosphatase non receptor type 11, Protein-tyrosine phosphatase 1D, Protein-tyrosine phosphatase 2C, PTN11_HUMAN, PTP-1D, PTP-2C, PTP1D, PTP2C, PTPN11, SAP2, SH-PTP2, SH-PTP3, SH2 domain containing protein tyrosine phosphatase 2, SHP 2, SHP-2, Shp2, SHPTP2, SHPTP3, Syp, Tyrosine-protein phosphatase non-receptor type 11.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 68 kDa
Uniprot ID	Q06124
Gene ID	5781
Background	The protein encoded by this gene 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. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. [provided by RefSeq, Aug 2016]
Cellular Location	Cytoplasm.

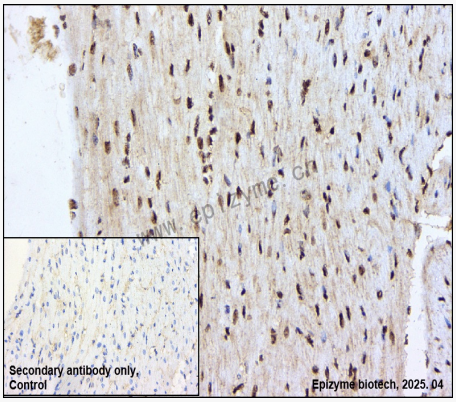
Validation Images



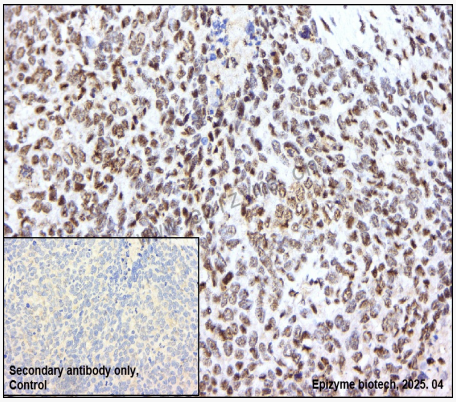
Immunofluorescence - Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015065 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



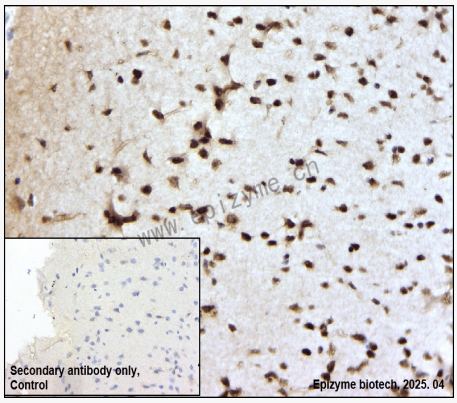
Western Blot - Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99]
All lanes: R015065 at 1:1,000 dilution
Lane 1 : PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 68 kDa
Observed band size: 68 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99]
Sample: Paraformaldehyde-fixed, paraffin embedded rat heart tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015065 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99]
Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015065 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-SHP2 (Tyr542) Rabbit mAb [15L32H99]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015065 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.