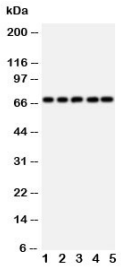
SHP2 Antibody / PTPN11 (R30959)

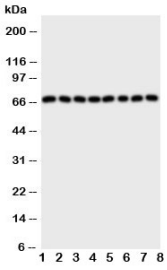
Catalog No.	Formulation	Size
R30959	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q06124
Applications	Western blot: 0.5-1ug/ml
Limitations	This SHP2 antibody is available for research use only.



Western blot testing of SHP2 antibody and rat samples 1: heart; 2: skeletal muscle; 3: brain; and human samples 4: HeLa; 5: A549 cell lysate. Predicted molecular weight: ~68 kDa.



Western blot testing of SHP2 antibody and rat samples 1: brain; 2: kidney; 3: heart; 4: skeletal muscle; and human samples 5: A431; 6: Jurkat; 7: HeLa; 8: U87 cell lysate. Predicted molecular weight: ~68 kDa.

Description

PTPN11 (Tyrosine-protein phosphatase non-receptor type 11), also known as 'SH2 domain containing protein tyrosine phosphatase 2' (SHP2), 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/SHP2 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 syndromeas well as acute myeloid leukemia.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SHP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human SHP2 (RVYENVGLMQQQKSFR) was used as the immunogen for this SHP2 antibody.

Storage

After reconstitution, the SHP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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