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Product datasheet for TA302214

SHP2 (PTPN11) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	IF: 1:10~50, WB: 1:1000
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This SHP2 antibody is generated from rabbits immunized with a recombinant protein of partial human SHP2.
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68010 Da
Gene Name:	protein tyrosine phosphatase, non-receptor type 11
Database Link:	NP_002825 Entrez Gene 5781 Human Q06124

View online »

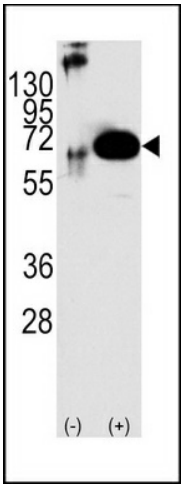
Background: SHP2, also known as PTPN11, is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem 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 the gene are a cause of Noonan syndrome as well as acute myeloid leukemia.

Synonyms: BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2

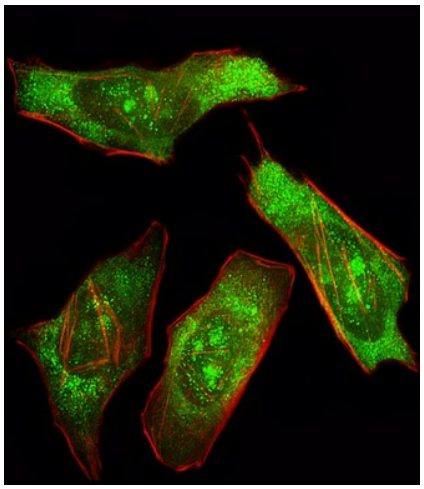
Protein Families: Druggable Genome, Phosphatase

Protein Pathways: Adipocytokine signaling pathway, Chronic myeloid leukemia, Epithelial cell signaling in Helicobacter pylori infection, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Renal cell carcinoma

Product images:



Western blot analysis of PTPN11 (arrow) using rabbit polyclonal SHP2 Antibody (RB07283). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PTPN11 gene (Lane 2) (Origene Technologies).



IF image of Hela cell stained with SHP2 Antibody (Cat#TA302214/SH050329B).Hela cells were incubated with SHP2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml).SHP2 immunoreactivity is localized to Nucleolus and Cytoplasm significantly and Nucleus weakly.