ARG55762
anti-SHP2 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SHP2
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Chk
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SHP2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 526-551 of Human SHP2.
Conjugation	Un-conjugated
Alternate Names	BPTP3; SHP-2; Protein-tyrosine phosphatase 2C; METCDS; PTP2C; Tyrosine-protein phosphatase non-receptor type 11; PTP-1D; CFC; PTP-2C; JMML; Shp2; Protein-tyrosine phosphatase 1D; NS1; EC 3.1.3.48; SH-PTP2; SH-PTP3; SHP2

Application Instructions

Application table

Application	Dilution
FACS	1:10 - 1:50
IHC-P	1:50 - 1:100
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

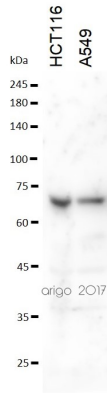
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

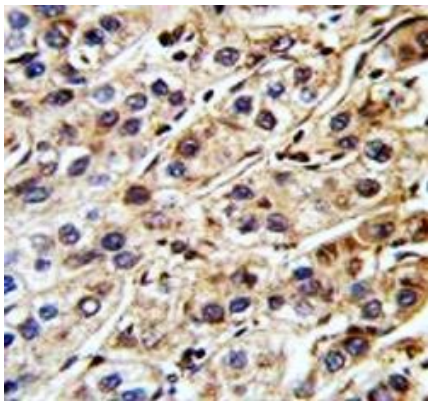
Database links	GeneID: 5781 Human Swiss-port # Q06124 Human
Gene Symbol	PTPN11
Gene Full Name	protein tyrosine phosphatase, non-receptor type 11
Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]
Function	Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Dephosphorylates ROCK2 at Tyr-722 resulting in stimulatation of its RhoA binding activity. [UniProt]
Highlight	Related products: SHP2 antibodies; Anti-Rabbit IgG secondary antibodies; Related news: Tools for studying H. pylori diseases
Calculated Mw	68 kDa
PTM	Phosphorylated on Tyr-546 and Tyr-584 upon receptor protein tyrosine kinase activation; which creates a binding site for GRB2 and other SH2-containing proteins. Phosphorylated upon activation of the receptor-type kinase FLT3. Phosphorylated upon activation of the receptor-type kinase PDGFRA (By similarity). Phosphorylated by activated PDGFRB.
Cellular Localization	Cytoplasm.

Images



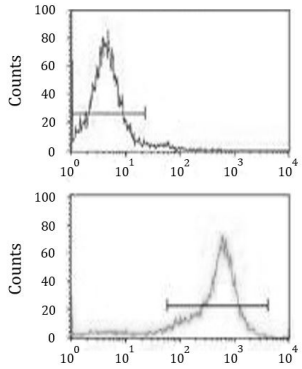
ARG55762 anti-SHP2 antibody WB image

Western blot: 30 µg of HCT116 and A549 cell lysates stained with ARG55762 anti-SHP2 antibody at 1:1000 dilution.



ARG55762 anti-SHP2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG55762 anti-SHP2 antibody.



ARG55762 anti-SHP2 antibody FACS image

Flow Cytometry: 293 cells stained with ARG55762 anti-SHP2 antibody (bottom histogram) or without primary antibody control (top histogram), followed by incubation with FITC labelled secondary antibody.