Datasheet for ABIN6243732

anti-PTPN11 antibody (AA 526-551)

3 Images | 1 Publication

Go to Product page

Overview

Quantity:	400 µL
Target:	PTPN11
Binding Specificity:	AA 526-551
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN11 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This SHP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 526-551 amino acids from human SHP2.
Clone:	RB21493
Isotype:	Ig Fraction
Predicted Reactivity:	C, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PTPN11

Target Details

Alternative Name:	SHP2 (PTPN11 Products)
Target Type:	Viral Protein
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.
Molecular Weight:	68011
NCBI Accession:	NP_002825, NP_542168
UniProt:	Q06124
Pathways:	JAK-STAT Signaling, RTK Signaling, TCR Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, BCR Signaling, Warburg Effect

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

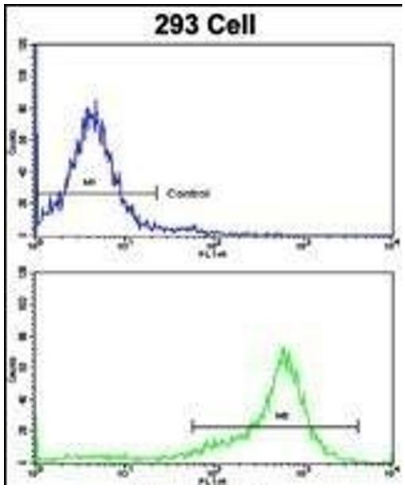
Handling

Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

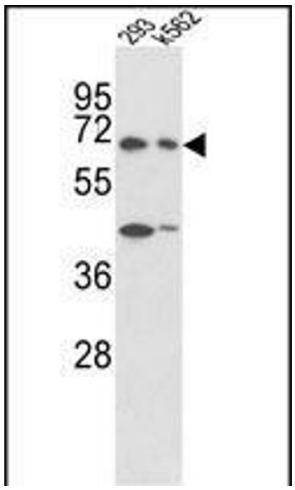
Product cited in:	Chang, Gao, Han, Du, Liu, Wang, Tan, Zhang, Liu, Zhu, Yu, Fan, Zhang, Zhou, Wang, Fu, Cao: " Gene expression profiling-derived immunohistochemistry signature with high prognostic value in colorectal carcinoma." in: **Gut**, Vol. 63, Issue 9, pp. 1457-67, (2014) (PubMed).

Images



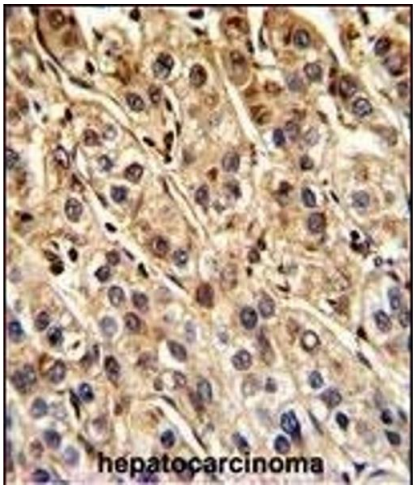
Flow Cytometry

Image 1. Flow cytometric analysis of 293 cells using SHP2 Antibody (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of SHP2 Antibody (ABIN6243732 and ABIN6579046) in 293, K562 cell line lysates (35 µg/lane). SHP2 (arrow) was detected using the purified Pab.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with SHP2 Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.

