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PRODUCT DATASHEET

Anti-SHP2 (N-terminal region) Antibody

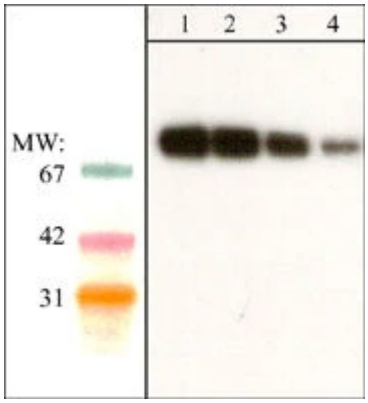
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:SM1631)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M163
Gene Name	PTPN11
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone (M163) was generated from a recombinant protein containing amino acids in the N-terminal region of human SHP2. This sequence is highly conserved in rat and mouse SHP2.
Specificity	The antibody detects a 72 kDa* protein in human A431 and Jurkat cells, and mouse brain. This antibody does not cross-react with SHP1.
Molecular Weight	72
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	Q06124 UniProt Summary: Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Positively regulates MAPK signal transduction pathway. Dephosphorylates GAB1, ARHGAP35 and EGFR. Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity. Dephosphorylates CDC73. Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification. Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L. Acts as an effector of PDCD1-mediated inhibition of T-cell response: recruited by phosphorylated PDCD1, mediating dephosphorylation of key T-cell receptor (TCR) proximal signaling molecules, leading to TCR signaling inhibition.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	5781

Product Images



Western blot analysis of adult mouse brain. The blot was probed with anti-SHP2 (N-terminal) antibody at 1:250 (lane 1), 1:500 (lane 2), 1:1000 (lane 3), and 1:2000 (lane 4).