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Anti-PTPN11 / SHP-2 / NS1 Antibody (aa321-370)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18030

Product Information

Application	WB, IHC-P, E
Primary Accession	Q06124
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	68011

Additional Information

Gene ID	5781
Alias Symbol	PTPN11
Other Names	PTPN11, Bptp-3, BPTP3, CFC, Csw, Corkscrew csw, Gene corkscrew, Phosphatase corkscrew, PTP-2C, SHP2, PTP-1D, PTP2C, SHP-2, SHPTP2, Noonan syndrome 1, SH-PTP2, SH-PTP3
Target/Specificity	SH-PTP2 Antibody detects endogenous levels of total SH-PTP2 protein.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-PTPN11 / SHP-2 / NS1 Antibody (aa321-370) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PTPN11
Synonyms	PTP2C, SHPTP2
Function	Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed:10655584, PubMed:14739280, PubMed:18559669, PubMed:18829466, PubMed:26742426, PubMed:28074573, PubMed:32184441). Positively regulates MAPK signal transduction pathway (PubMed:28074573). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:28074573). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:18559669). Dephosphorylates CDC73 (PubMed:26742426). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L

	(PubMed:19275884). 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 (PubMed:32184441).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Widely expressed, with highest levels in heart, brain, and skeletal muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.