

Product datasheet for **TA389207**

PTPN11 Mouse Antibody [Clone ID: M163]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M163
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
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.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
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.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	72
Database Link:	Q06124



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Background:

SHP2 (PTP1D, SH-PTP2, or Syp) is a widely expressed protein-tyrosine phosphatase (PTP) that maintains phosphotyrosine homeostasis during growth factor, cytokine, hormone and antigen receptor signaling. This phosphatase contains two N-terminal SH2 domains and a C-terminal phosphatase domain. SHP2 associates with EGF and PDGF growth factor receptors and is activated after stimulation of these receptors. Activation of SHP-2 and its association with Gab1 is critical for sustained ERK activation downstream of both growth factor and cytokine receptors. In addition to its role in Gab1-mediated Erk activation, SHP-2 attenuates EGF-dependent PI3 kinase activation by dephosphorylating Gab1 p85 binding sites. Thus, SHP2 is critical for maintaining phosphotyrosine homeostasis in many cell signaling pathways

Note:

Protein G purified tissue culture supernatant.