10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-SHP2 (N-terminal region) Antibody

Catalog # AN1956

Product Information

Application	WB
Primary Accession	Q06124
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M163
Calculated MW	68011

Additional Information

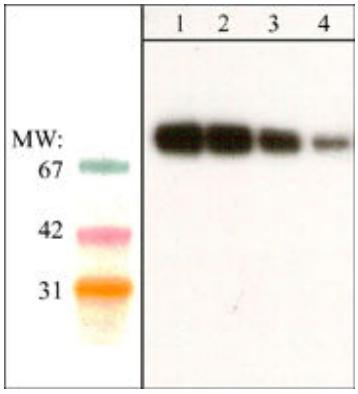
Gene ID	5781
Other Names	PTP1D, SHPTP2, Syp
Dilution	WB~~1:1000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-SHP2 (N-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

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

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).



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