

Anti-SHP2 (N-terminal region) Antibody

Catalog # AN1956

Specification

Anti-SHP2 (N-terminal region) Antibody - Product Information

Primary Accession Reactivity Host Clonality Isotype Calculated MW

O06124 Bovine Mouse Mouse Monoclonal IgG1 68011

Anti-SHP2 (N-terminal region) Antibody - Additional Information

Gene ID Other Names PTP1D, SHPTP2, Syp 5781

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

Anti-SHP2 (N-terminal region) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-SHP2 (N-terminal region) Antibody - 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).

Anti-SHP2 (N-terminal region) Antibody - 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