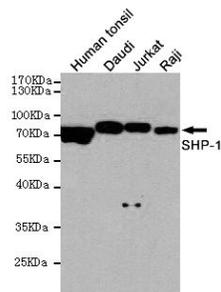




SHP-1

Mouse monoclonal Antibody

#53776

Catalog Number: 53776**Amount:** 100µg/100µl**Swiss-Prot No. :** P29350**Gene name:** ptpn6**Gene id:** 5777**Clone Number:** 2B7-H7-F8**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human SHP-1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of SHP-1 and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 68kd WB: 1:1000

Western blot detection of SHP-1 in Human tonsil, Daudi, Jurkat and Raji cell lysates using SHP-1 mouse mAb (1:1000 diluted). Predicted band size: 67KDa. Observed band size: 67KDa.

Background:

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported.