

Goat Anti-PTPN6 / SHP1 (internal region) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1882a

Specification

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - Product Information

Application	WB, IHC
Primary Accession	P29350
Other Accession	NP_002822 , 5777 , 15170 (mouse) , 116689 (rat)
Reactivity	Human, Mouse, Rat
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	67561

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - Additional Information

Gene ID 5777

Other Names

Tyrosine-protein phosphatase non-receptor type 6, 3.1.3.48, Hematopoietic cell protein-tyrosine phosphatase, Protein-tyrosine phosphatase 1C, PTP-1C, Protein-tyrosine phosphatase SHP-1, SH-PTP1, PTPN6, HCP, PTP1C

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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

Goat Anti-PTPN6 / SHP1 (internal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - Protein Information

Name PTPN6

Synonyms HCP, PTP1C

Function

Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. The SH2 regions may interact with other cellular components to modulate its own

phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. Plays a key role in hematopoiesis.

Cellular Location

Cytoplasm. Nucleus. Note=In neurons, translocates into the nucleus after treatment with angiotensin II (By similarity) Shuttles between the cytoplasm and nucleus via its association with PDPK1.

Tissue Location

Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - Protocols

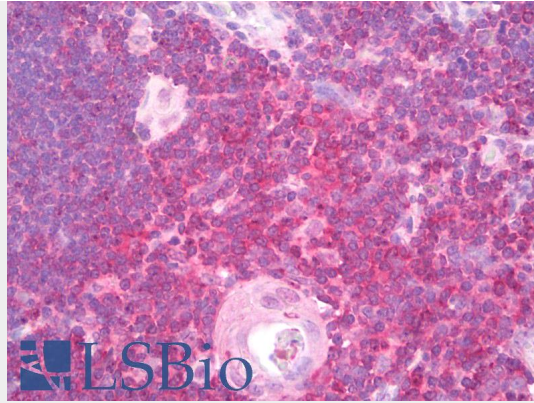
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - Images



AF1882a (0.1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Detected by chemiluminescence.



AF1882a (5 µg/ml) staining of paraffin embedded Human Thyroid. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - 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.

Goat Anti-PTPN6 / SHP1 (internal region) Antibody - References

The tyrosine 343 residue of nucleophosmin (NPM)-anaplastic lymphoma kinase (ALK) is important for its interaction with SHP1, a cytoplasmic tyrosine phosphatase with tumor suppressor functions. Hegazy SA, et al. J Biol Chem, 2010 Jun 25. PMID 20424160.

Calpain-dependent cleavage of SHP-1 and SHP-2 is involved in the dephosphorylation of Jurkat T cells induced by Entamoeba histolytica. Kim KA, et al. Parasite Immunol, 2010 Mar. PMID 20398180.

Contribution of SHP-1 protein tyrosine phosphatase to osmotic regulation of the transcription factor TonEBP/OREBP. Zhou X, et al. Proc Natl Acad Sci U S A, 2010 Apr 13. PMID 20351292.

Deficient SOCS3 and SHP-1 expression in psoriatic T cells. Eriksen KW, et al. J Invest Dermatol, 2010 Jun. PMID 20130595.

The tyrosine phosphatase, SHP-1, is involved in bronchial mucin production during oxidative stress. Jang MK, et al. Biochem Biophys Res Commun, 2010 Feb 26. PMID 20117097.