

ARG64175 anti-SHP1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes SHP1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Dog
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise both reported isoforms (NP_536858.1 and NP_002822.2). _x000D_Please note this antibody was designed using the mouse sequence, which differs by 1 amino acid from the human sequence.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	SHP1
Species	Human
Immunogen	C-KASRTSSKHKEE
Conjugation	Un-conjugated
Alternate Names	HCP; Hematopoietic cell protein-tyrosine phosphatase; Protein-tyrosine phosphatase SHP-1; SH-PTP1; PTP-1C; HPTP1C; HCPH; Tyrosine-protein phosphatase non-receptor type 6; SHP-1; EC 3.1.3.48; SHP1; SHP-1L; Protein-tyrosine phosphatase 1C

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/ml
	WB	0.01 - 0.1 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

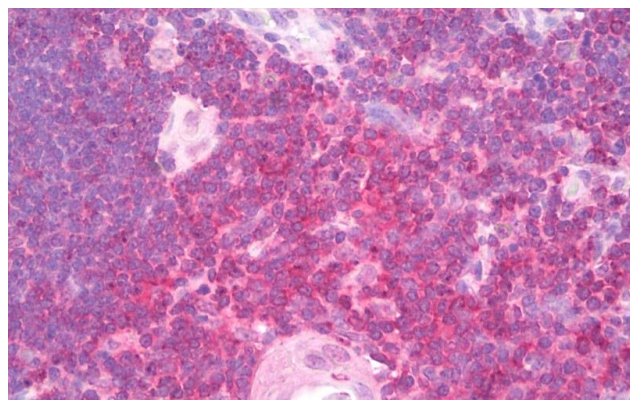
Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this 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. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Signaling Transduction antibody
Calculated Mw	68 kDa
PTM	Phosphorylated on tyrosine residues. Binding of KITLG/SCF to KIT increases tyrosine phosphorylation (By similarity). Phosphorylation at Tyr-564 enhances phosphatase activity.

Images



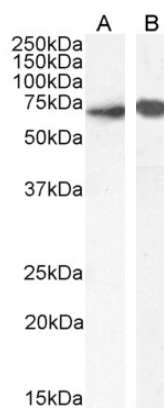
ARG64175 anti-SHP1 antibody WB image

Western blot: Human Liver lysate (35 µg protein in RIPA buffer) stained with ARG64175 anti-SHP1 antibody at 0.1 µg/ml dilution.



ARG64175 anti-SHP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human thyroid tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64175 anti-SHP1 antibody at 5 µg/ml dilution followed by AP-staining.



ARG64175 anti-SHP1 antibody WB image

Western blot: 35 µg of Mouse thymus (A) and Rat thymus (B) lysates (in RIPA buffer) stained with ARG64175 anti-SHP1 antibody at 0.01 µg/ml (A) and 0.1 µg/ml (B) dilutions and incubated at RT for 1 hour.