

Product datasheet

Anti-SHP1 antibody ab60268

[1 References](#) [3 Images](#)

Overview

Product name	Anti-SHP1 antibody
Description	Goat polyclonal to SHP1
Host species	Goat
Specificity	This antibody is expected to recognise both reported isoforms (NP_536858.1 and NP_002822.2). Please note this antibody was designed using the mouse sequence, which differs by 1 amino acid from the human sequence.
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide: C-KASRTSSKHKEE , corresponding to internal sequence amino acids 551-562 of Mouse SHP1 Run BLAST with Run BLAST with
Positive control	WB: Human Liver lysates, Mouse and Rat thymus tissue lysates; IHC-P: Human Thyroid tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab60268** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.01 - 0.3 µg/ml. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).

Target

Function	Plays a key role in hematopoiesis. This PTPase activity may directly link growth factor receptors and other signaling proteins through protein-tyrosine phosphorylation. 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.
Tissue specificity	Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily. Contains 2 SH2 domains. Contains 1 tyrosine-protein phosphatase domain.
Post-translational modifications	Phosphorylated on serine and tyrosine residues.
Cellular localization	Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II.

Images

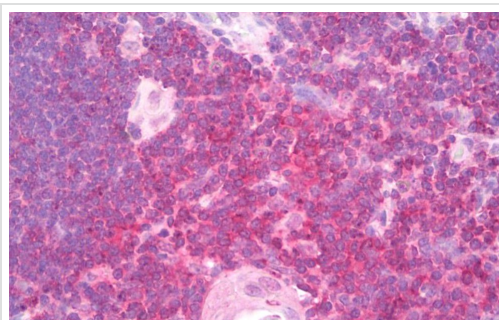


Anti-SHP1 antibody (ab60268) at 0.1 µg/ml + Human Liver lysate
(35µg protein in RIPA buffer)

Predicted band size: 68 kDa

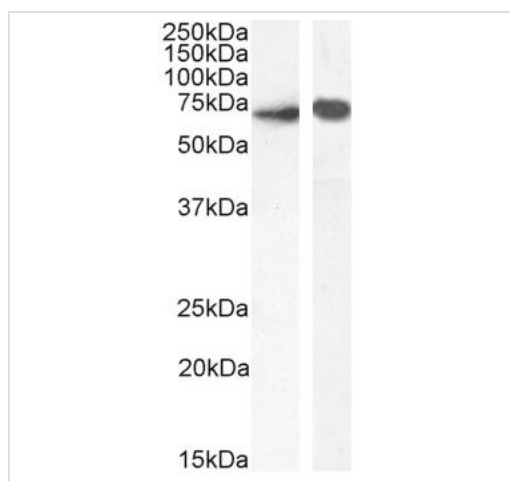
Observed band size: 68 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody (ab60268)

ab60268 (5 µg/ml) staining of paraffin embedded Human Thyroid.
Steamed antigen retrieval with citrate buffer pH 6.



Western blot - Anti-SHP1 antibody (ab60268)

Lane 1 : Anti-SHP1 antibody (ab60268) at 0.01 µg/ml

Lane 2 : Anti-SHP1 antibody (ab60268) at 0.1 µg/ml

Lane 1 : Mouse Thymus lysate (35µg protein in RIPA buffer)

Lane 2 : Rat Thymus lysate (35µg protein in RIPA buffer)

Predicted band size: 68 kDa

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