


Product datasheet

Anti-SHP1 (phospho Y536) antibody ab41437

★★★★★ [2 Abreviews](#) [3 References](#) [1 Image](#)

Overview

Product name	Anti-SHP1 (phospho Y536) antibody
Description	Rabbit polyclonal to SHP1 (phospho Y536)
Host species	Rabbit
Specificity	Phospho-Tyr536-SHP1 specific. The antibody detects a 68 kDa band on SDS-PAGE immunoblots of human Jurkat cells treated with pervanadate (not observed in control cells).
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human SHP1 (phospho Y536). Database link: P29350
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	This antibody was cross-adsorbed to a non specific phospho-tyrosine peptide then affinity purified using phospho-Tyr536-SHP1 peptide (immunogen).
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab41437 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
WB	★★★★★ (2)	1/1000. 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



Lanes 1-2 : anti-SHP1 (C-terminal)

Lanes 3-5 : Anti-SHP1 (phospho Y536) antibody (ab41437) at 1/1000 dilution

Lanes 1 & 3 : human Jurkat cells treated with 1 mM pervanadate for 30 min.

Lanes 2 & 4 : human Jurkat cells treated with 1 mM pervanadate for 30 min, blot exposed to alkaline phosphatase before probing

Lane 5 : human Jurkat cells treated with 1 mM pervanadate for 30 min.
with phospho-Tyr536-SHP1 peptide

Predicted band size: 68 kDa

Observed band size: 68 kDa

Membrane was incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors