

Datasheet: AHP1198

Description:	RABBIT ANTI SHP2 (C-TERMINAL)
Specificity:	SHP2 (C-TERMINAL)
Other names:	PTPN11
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human SHP2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	14 amino acid peptide sequence near the carboxy terminus of human SHP2.

**External Database
Links**

UniProt:

[Q06124](#) [Related reagents](#)

Entrez Gene:

[5781](#) PTPN11 [Related reagents](#)

Synonyms

PTP2C, SHPTP2

Specificity

Rabbit anti SHP2 antibody recognizes src homology 2 domain containing tyrosine phosphatase (SHP2), a 68 kDa member of the protein tyrosine phosphatase family. SHP2 acts downstream of growth factor receptors and cytoplasmic protein tyrosine kinases which transduce signals from cell surface to the nucleus. The recruitment and activation of SHP2 is mediated through the binding of CD172a to its ligand CD47. SHP2 regulates a variety of cellular processes. These include transcription, embryonic development, cell growth, cell migration, differentiation, mitotic cycle, haematopoiesis and oncogenic transformation. As a result, dysregulation of the SHP2 gene has been linked to LEOPARD, Noonan and Noonan-like syndrome as well as acute myeloid leukaemia. SHP2 is ubiquitously expressed, with highest levels found in heart, brain, and skeletal muscle.

Western Blotting

AHP1198 detects a band of approximately 68kDa in skeletal muscle tissue lysate.

References

1. Kumar, S. *et al.* (2011) Disruption of HLA-DR raft, deregulations of Lck-ZAP-70-Cbl-b cross-talk and miR181a towards T cell hyporesponsiveness in leprosy. [Mol Immunol. 48 \(9-10\): 1178-90.](#)

Further Reading

1. Salmond, R.J. & Alexander, D.R. (2006) SHP2 forecast for the immune system: fog gradually clearing. [Trends Immunol. 27 \(3\): 154-60.](#)
2. Fujioka, Y. *et al.* (1996) A novel membrane glycoprotein, SHPS-1, that binds the SH2-domain-containing protein tyrosine phosphatase SHP-2 in response to mitogens and cell adhesion. [Mol Cell Biol. 16 \(12\): 6887-99.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

'M283034:160223'

Printed on 01 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)