

Datasheet: AHP2672

Description:	RABBIT ANTI PTPN11 (pTyr542)
Specificity:	PTPN11 (pTyr542)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to PTPN11 (pTyr542) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
50% Glycerol

Immunogen Phospho specific-peptide corresponding to residues surrounding tyrosine 542 of human PTPN11

External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms PTP2C, SHPTP2

Specificity **Rabbit anti PTPN11 (pTyr542) antibody** recognizes PTPN11 also known as tyrosine-protein phosphatase non-receptor type 11, PTP2C or SHPTP2, when phosphorylated at tyrosine 542. PTPN11 is a member of the protein tyrosine phosphatase (PTP) family. PTPN11 contains two Src homology-2 domains which bind phospho-tyrosine domains. PTPs regulate numerous cellular functions including cell proliferation and oncogenic transformation. EphA2 has been identified as a kinase that phosphorylates PTPN11 at tyrosine 542 leading to the recruitment of Grb2 ([Miura et al. 2013](#)).

Further Reading 1. Miura, K. *et al.* (2013) Involvement of EphA2-mediated tyrosine phosphorylation of Shp2 in Shp2-regulated activation of extracellular signal-regulated kinase. [Oncogene. 32\(45\): 5292-301.](#)

Storage Store at -20°C
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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10049 available at: 10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

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

Recommended Useful Reagents

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

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