

Datasheet: AHP2692

Description:	RABBIT ANTI ZAP 70 (pTyr493)
Specificity:	ZAP 70 (pTyr493)
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 ZAP 70 (pTyr493) 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

0.05% ProClin 300
50% Glycerol

Immunogen

Phospho specific-peptide corresponding to residues surrounding tyrosine 493 of human

ZAP 70

External Database

Links

UniProt:

[P43403](#)

[Related reagents](#)

Entrez Gene:

[7535](#)

ZAP70

[Related reagents](#)

Synonyms

SRK

Specificity

Rabbit anti ZAP 70 (pTyr493) antibody recognizes ZAP 70, also known as Zeta-chain-associated protein kinase 70 when phosphorylated at tyrosine 493. ZAP70 is a member of the tyrosine kinase family. ZAP 70 plays a key role in the activation of T cells. ZAP 70 is phosphorylated at tyrosine 493 by Lck in response to T cell receptor stimulation ([Wang et al. 2010](#)). Phosphorylation of ZAP 70 at tyrosine 493 fully activates ZAP 70 leading to phosphorylation of downstream targets of the T cell activation pathway.

Further Reading

1. Wang, H. *et al.* (2010) ZAP-70: an essential kinase in T-cell signaling. [Cold Spring Harb Perspect Biol. 2 \(5\): a002279.](#)

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

Acknowledgements

ProClin is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

Health And Safety Information

Material Safety Datasheet documentation #20376 available at: <https://www.bio-rad-antibodies.com/SDS/AHP2692>
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Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

Recommended Useful Reagents

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

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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