

Datasheet: AHP2692

**BATCH NUMBER 165992**

<b>Description:</b>	RABBIT ANTI ZAP 70 (pTyr493)
<b>Specificity:</b>	ZAP 70 (pTyr493)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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

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**External Database Links**

**UniProt:**

[P43403](#)    [Related reagents](#)

**Entrez Gene:**

[7535](#)    ZAP70    [Related reagents](#)

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**Synonyms** SRK

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**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.

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**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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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

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**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

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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