

Datasheet: 1065002S

**BATCH NUMBER 16662**

<b>Description:</b>	MOUSE ANTI HUMAN ZAP 70:FITC
<b>Specificity:</b>	ZAP 70
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	SBZAP
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 µg

## 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
Flow Cytometry (1)	▪			

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.

**(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.**

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Antibody purified from ascites		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Approx. Protein</b>	IgG concentration 0.1 mg/ml		

## Concentrations

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**Immunogen** Synthetic peptide corresponding to amino acids 280-309 of human ZAP70 conjugated to keyhole limpet hemocyanin (KLH).

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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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**RRID** AB\_616761

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**Specificity** **Mouse anti Human ZAP 70 antibody, clone SBZAP** recognizes human ZAP-70, a 70kDa tyrosine protein kinase which associates with the T-cell receptor (TCR) zeta chain and undergoes phosphorylation following TCR stimulation. ZAP-70 is primarily expressed in T lymphocytes and natural killer cells, where it plays a key role in T-cell receptor (TCR) signalling. ZAP-70 is also expressed in a population of normal immature B-cells and in B-cells from a sub-set of patients with chronic lymphocytic leukaemia ([Deglesne et al. 2006](#)).

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## References

1. Roifman, C.M. *et al.* (1989) Depletion of CD8+ cells in human thymic medulla results in selective immune deficiency. [J Exp Med. 170 \(6\): 2177-82.](#)
  2. Arpaia, E. *et al.* (1994) Defective T cell receptor signaling and CD8+ thymic selection in humans lacking zap-70 kinase. [Cell. 76 \(5\): 947-58.](#)
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## Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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## Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

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## Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/1065002S>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

## Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

[LEUCOPERM \(BUF09B\)](#)

[LEUCOPERM \(BUF09C\)](#)

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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