

## Datasheet: MCA1723

**BATCH NUMBER 160673**

<b>Description:</b>	MOUSE ANTI HUMAN CD8 BETA
<b>Specificity:</b>	CD8 BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2ST8.5H7
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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: Cynomolgus monkey, Rhesus Monkey

**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 - lyophilized

### Reconstitution

Reconstitute with 0.2ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the

bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide

<b>Preparation</b>	Purified IgG prepared by affinity chromatography from Ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Normal human T lymphocytes.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P10966</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">926</a> CD8B <a href="#">Related reagents</a>
<b>Synonyms</b>	CD8B1
<b>RRID</b>	AB_322685
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD8 beta antibody, clone 2ST8.5H7</b> recognizes the human CD8 cell surface antigen. The antibody binds to the beta chain, recognizing an epitope that is dependent upon expression of both CD8 alpha and CD8 beta.</p> <p>CD8 molecules are composed of dimers of either alpha/alpha or alpha/beta polypeptide combinations. Both types of dimer may co-exist at the cell surface. Clone 2ST8.5H7 is also referred to as clone T8/2T8-5H7 and binding is dependent on the expression of the alpha/beta dimer.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"><li>1. Terry, L.A. <i>et al.</i> (1990) Differential expression and regulation of the human CD8 alpha and CD8 beta chains. <a href="#">Tissue Antigens 35: 82-91.</a></li><li>2. DiSanto, J.P. <i>et al.</i> (1991) Generation of anti-human CD8 beta-specific antibodies using transfectants expressing mixed-species CD8 heterodimers. <a href="#">J Immunol Methods. 141 (1): 123-31.</a></li><li>3. de la Calle-Martin, O. <i>et al.</i> (2001) Familial CD8 deficiency due to a mutation in the CD8 alpha gene. <a href="#">J Clin Invest. 108: 117-23.</a></li><li>4. Schmitz, J.E. <i>et al</i> (1998) Expression of the CD8alpha beta-heterodimer on CD8(+) T</li></ol>

lymphocytes in peripheral blood lymphocytes of human immunodeficiency virus- and human immunodeficiency virus+ individuals. [Blood. 92: 198-206.](#)

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<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution 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.
<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10294 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1723">https://www.bio-rad-antibodies.com/SDS/MCA1723</a> 10294
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<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://www.bio-rad-antibodies.com/datasheets)  
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