

Datasheet: MCA1723

BATCH NUMBER 163757

Description:	MOUSE ANTI HUMAN CD8 BETA
Specificity:	CD8 BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2ST8.5H7
Isotype:	IgG2a
Quantity:	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.

	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

Preparation	Purified IgG prepared by affinity chromatography from Ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Normal human T lymphocytes.
External Database Links	UniProt: P10966 Related reagents Entrez Gene: 926 CD8B Related reagents
Synonyms	CD8B1
RRID	AB_322685
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Human CD8 beta antibody, clone 2ST8.5H7 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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none">1. Terry, L.A. <i>et al.</i> (1990) Differential expression and regulation of the human CD8 alpha and CD8 beta chains. Tissue Antigens 35: 82-91.2. DiSanto, J.P. <i>et al.</i> (1991) Generation of anti-human CD8 beta-specific antibodies using transfectants expressing mixed-species CD8 heterodimers. J Immunol Methods. 141 (1): 123-31.3. de la Calle-Martin, O. <i>et al.</i> (2001) Familial CD8 deficiency due to a mutation in the CD8 alpha gene. J Clin Invest. 108: 117-23.4. Schmitz, J.E. <i>et al</i> (1998) Expression of the CD8alpha beta-heterodimer on CD8(+) T

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

Storage	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.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/MCA1723 10294
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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