

# Datasheet: MCA609SBY575 BATCH NUMBER 100007267

Description:	RAT ANTI MOUSE CD8 ALPHA:StarBright Yellow 575		
Specificity:	CD8 ALPHA		
Other names:	LY-2		
Format:	StarBright Yellow 575		
Product Type:	Monoclonal Antibody		
Clone:	KT15		
lsotype:	lgG2a		

## **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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	•		Neat	
	Where this product has necessarily exclude its a guide only. It is recor system using appropria	use in such procedu nmended that the us	res. Suggested working er titrates the product f	g dilutions are given as	
Target Species	Mouse				
Product Form	Purified IgG conjugated to StarBright Yellow 575 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	StarBright Yellow 575	548	579		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide ( 1% Bovine Serum Albu 0.1% Pluronic F68 0.1% PEG 3350	0,			

	0.05% Tween 20
Immunogen	T cell clone, C6
External Database Links	UniProt: <u>P01731</u> <u>Related reagents</u> Entrez Gene: <u>12525</u> Cd8a <u>Related reagents</u>
Synonyms	Lyt2, Lyt-2
Fusion Partners	Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line
Specificity	<b>Rat anti Mouse CD8</b> $\alpha$ , <b>clone KT15</b> , recognizes the <u>alpha chain of mouse CD8</u> . CD8 is a heterodimeric protein composed of disulphide-linked CD8 $\alpha$ and <u>CD8<math>\beta</math></u> chains that is expressed primarily on cytotoxic T-cells. CD8 functions in the interaction with MHC Class I-bearing targets and plays a role in T-cell-mediated killing ( <u>Nakauchi , H. <i>et al.</i>, 1985</u> & <u>Nakauchi, H. <i>et al.</i>, 1987</u> ).
	Clone KT15 is reported to block T-cell-mediated cytotoxicity in <i>in vitro</i> assays (Zeis, M. et <u>al., 2002</u> ).
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	<ol> <li>Tomonari, K. &amp; Lovering, E. (1988) T-cell receptor-specific monoclonal antibodies against a V beta 11-positive mouse T-cell clone. <u>Immunogenetics. 28 (6): 445-51.</u></li> <li>Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J <u>Histochem Cytochem. 43 (3): 313-20.</u></li> <li>Lee, Y.L. <i>et al.</i> (2003) Oral administration of Agaricus blazei (H1 strain) inhibited tumor growth in a sarcoma 180 inoculation model. <u>Exp Anim. 52: 371-5.</u></li> <li>Eller, K. <i>et al.</i> (2011) IL-9 production by regulatory T cells recruits mast cells that are essential for regulatory T cell-induced immune suppression. <u>J Immunol. 186: 83-91.</u></li> <li>Grimm, M. <i>et al.</i> (2010) Evaluation of immunological escape mechanisms in a mouse model of colorectal liver metastases. <u>BMC Cancer. 10: 82.</u></li> <li>Liao, D. <i>et al.</i> (2009) Cancer Associated Fibroblasts Promote Tumor Growth and Metastasis by Modulating the Tumor Immune Microenvironment in a 4T1 Murine Breast Cancer Model PLoS One. 4: e7965.</li> </ol>

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Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA609SBY575 20471
Regulatory	For research purposes only

### **Related Products**

#### **Recommended Useful Reagents**

#### MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M413690:221125'

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