

Datasheet: MCA609SBY605

Description:	RAT ANTI MOUSE CD8 ALPHA:StarBright Yellow 605	
Specificity:	CD8 ALPHA	
Other names:	LY-2	
Format:	StarBright Yellow 605	
Product Type:	Monoclonal Antibody	
Clone:	KT15	
Isotype:	lgG2a	
Quantity:	100 TESTS/0.5ml	

### **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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	Mouse		
Product Form	Purified IgG conjugate	ed to StarBright Yellow	/ 605 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	StarBright Yellow 605	572	606
Proporation			
Freparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A t
Buffer Solution	•		raphy on Protein A t
Preparation  Buffer Solution  Preservative	supernatant	aline	raphy on Protein A
Buffer Solution	supernatant  Phosphate buffered sa	aline (NaN <sub>3</sub> )	raphy on Protein A
Buffer Solution Preservative	Phosphate buffered sa 0.09% Sodium Azide	aline (NaN <sub>3</sub> )	raphy on Protein A
Buffer Solution Preservative	supernatant  Phosphate buffered sa  0.09% Sodium Azide 1% Bovine Serum Alb	aline (NaN <sub>3</sub> )	raphy on Protein A

Immunogen	T cell clone, C6
External Database Links	UniProt: P01731 Related reagents  Entrez Gene: 12525 Cd8a Related reagents
Synonyms	Lyt2, Lyt-2
Fusion Partners	Spleen cells from immunized SD rats were fused with cells of the NS0 mouse myeloma cell line
Specificity	Rat anti Mouse CD8α, clone KT15, recognizes the alpha chain of mouse CD8. CD8 is a heterodimeric protein composed of disulphide-linked CD8α and CD8β 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 (Nakauchi, H. et al., 1985).  Nakauchi, H. et al., 1987).
	Clone KT15 is reported to block T-cell-mediated cytotoxicity in <i>in vitro</i> assays (Zeis, M. et al., 2002).
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	1. Tomonari, K. & Lovering, E. (1988) T-cell receptor-specific monoclonal antibodies against a V beta 11-positive mouse T-cell clone. Immunogenetics. 28 (6): 445-51.  2. Whiteland, J.L. et al. (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43 (3): 313-20.  3. Lee, Y.L. et al (2003) Oral administration of Agaricus blazei (H1 strain) inhibited tumor growth in a sarcoma 180 inoculation model. Exp Anim. 52: 371-5.  4. Eller, K. et al. (2011) IL-9 production by regulatory T cells recruits mast cells that are essential for regulatory T cell-induced immune suppression. J Immunol. 186: 83-91.  5. Grimm, M. et al. (2010) Evaluation of immunological escape mechanisms in a mouse model of colorectal liver metastases. BMC Cancer. 10: 82.  6. Liao, D. et al. (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.  7. Moos, M.P. et al. (2005) The lamina adventitia is the major site of immune cell accumulation in standard chow-fed apolipoprotein E-deficient mice. Arterioscler Thromb Vasc Biol. 25: 2386-91.

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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: <a href="https://www.bio-rad-antibodies.com/SDS/MCA609SBY605">https://www.bio-rad-antibodies.com/SDS/MCA609SBY605</a> 20471
Regulatory	For research purposes only

### Related Products

# **Recommended Useful Reagents**

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

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Europe Tel: +49 (0) 89 8090 95 21

Fax: +1 919 878 3751 America

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

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