

Datasheet: MCA609SBV440

BATCH NUMBER 100004000

Description:	RAT ANTI MOUSE CD8 ALPHA:StarBright Violet 440		
Specificity:	CD8 ALPHA		
Other names:	LY-2		
Format:	StarBright Violet 440		
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 www.bio-rad-antibodies.com/protocols.

	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 Violet	440 - liquid
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	StarBright Violet 440	385	438
eparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G
ffer Solution	Phosphate buffered s	aline	
eservative	0.09% Sodium Azide	(NaN ₃)	
tabilisers	1% Bovine Serum Alb	oumin	
	0.1% Pluronic F68		
	0.1% PEG 3350		

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).
	Clone KT15 is reported to block T-cell-mediated cytotoxicity in <i>in vitro</i> assays (<u>Zeis, M. et al., 2002</u>).
Flow Cytometry	Use 5ul of the suggested working dilution to label 10 ⁶ 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.

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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	Material Safety Datasheet documentation #20438 available at:

Information https://www.bio-rad-antibodies.com/SDS/MCA609SBV440

20438

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

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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 'M375969:210114'

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