

Datasheet: MCA351F

Description:	RAT ANTI HUMAN CD8:FITC
Specificity:	CD8
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	YTC182.20
Isotype:	lgG2b
Quantity:	100 TESTS

Human

Product Details

Applications

Target Species

Buffer Solution

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.biorad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat

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.

Species Cross Reactivity	N.B. Antibody reactivity is derive	omolgus monkey, Rhesus activity and working conditied from testing within our landstance from the originated.	ons may vary between aboratories, peer-rev	iewed publications or
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid			
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	FITC	490	525	

Preservative 0.09% Sodium Azide **Stabilisers**

Phosphate buffered saline

	170 Bovine Geram Albaniin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Mouse L cells transfected with human CD8 gene.
External Database	UniProt:
	P01732 Related reagents
	P10966 Related reagents
	Entrez Gene:
	925 CD8A Related reagents
	926 CD8B Related reagents
Synonyms	CD8B1, MAL
RRID	AB_321404
Fusion Partners	Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag.1.2.3 myeloma line.
Specificity	Rat anti Human CD8 antibody, clone YTC182.20 recognizes the human CD8 cell surface antigen, a ~30/32 kDa glycoprotein expressed by the cytotoxic/suppressor subset of T lymphocytes, and more weakly by NK cells.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or cells or 100ul whole blood.
References	1. Jonker, M. <i>et al.</i> (1989) Reactivity of mAb specific for human CD markers with Rhesus monkey leucocytes. Leucocyte Typing IV. Oxford University Press p 1058-1063. 2. Walton, L.J. <i>et al.</i> (1998) Intra-epithelial subpopulations of T lymphocytes and Langerhans cells in oral lichen planus. <u>J Oral Pathol Med. 27 (3): 116-23.</u> 3. Shacklett, B.L. <i>et al.</i> (2004) Abundant expression of granzyme A, but not perforin, in granules of CD8+ T cells in GALT: implications for immune control of HIV-1 infection. <u>J Immunol. 173 (1): 641-8.</u> 4. Salajegheh, M. <i>et al.</i> (2007) Upregulation of thrombospondin-1(TSP-1) and its binding partners, CD36 and CD47, in sporadic inclusion body myositis. <u>J Neuroimmunol. 187</u>
	(1-2): 166-74. 5. Salaiegheb, M. <i>et al.</i> (2007) T cell receptor profiling in muscle and blood lymphocytes in

- 5. Salajegheh, M. *et al.* (2007) T cell receptor profiling in muscle and blood lymphocytes in sporadic inclusion body myositis. <u>Neurology. 69 (17): 1672-9.</u>
- 6. Sasikala-Appukuttan, A.K. *et al.* (2013) Location and dynamics of the immunodominant CD8 T cell response to SIVΔnef immunization and SIVmac251 vaginal challenge. <u>PLoS One. 8 (12): e81623.</u>
- 7. Willing, A. *et al.* (2014) CD8⁺ MAIT cells infiltrate into the CNS and alterations in their blood frequencies correlate with IL-18 serum levels in multiple sclerosis. <u>Eur J Immunol.</u> 44 (10): 3119-28.
- 8. Wang, H. et al. (2016) Assessment of placental transfer and the effect on embryo-fetal

development of a humanized monoclonal antibody targeting lymphotoxin-alpha in non-human primates. Reprod Toxicol. 63: 82-95.

- 9. Cramer, M.L. *et al.* (2017) Induction of T-Cell Infiltration and Programmed Death Ligand 2 Expression by Adeno-Associated Virus in Rhesus Macaque Skeletal Muscle and Modulation by Prednisone. <u>Hum Gene Ther. 28 (6): 493-509.</u>
- 10. van, G.N. *et al.* (2017) Phenotypic and functional characterization of T cells in white matter lesions of multiple sclerosis patients. <u>Acta Neuropathol. 134 (3): 383-401.</u>
 11. lacomino, G. *et al.* (2020) IBD: Role of intestinal compartments in the mucosal

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA351F 10041
Regulatory	For research purposes only

immune response. Immunobiology. 225 (1): 151849.

Related Products

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL:FITC (MCA6006F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739

Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

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 'M405520:220916'

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