

Datasheet: MCA351F

BATCH NUMBER 151791

Description:	RAT ANTI HUMAN CD8:FITC
Specificity:	CD8
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	YTC182.20
Isotype:	IgG2b
Quantity:	100 TESTS

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 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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Mouse L cells transfected with human CD8 gene.
External Database Links	<p>UniProt:</p> <p>P01732 Related reagents</p> <p>P10966 Related reagents</p> <p>Entrez Gene:</p> <p>925 CD8A Related reagents</p> <p>926 CD8B Related reagents</p>
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	<ol style="list-style-type: none"> Jonker, M. <i>et al.</i> (1989) Reactivity of mAb specific for human CD markers with Rhesus monkey leucocytes. <i>Leucocyte Typing IV</i>. Oxford University Press p 1058-1063. Yoshino, N. <i>et al.</i> (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (<i>Macaca fascicularis</i>) by using anti-human cross-reactive antibodies. Exp Anim. 49 (2): 97-110. Walton, L.J. <i>et al.</i> (1998) Intra-epithelial subpopulations of T lymphocytes and Langerhans cells in oral lichen planus. J Oral Pathol Med. 27 (3): 116-23. 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. J Immunol. 173 (1): 641-8. Wang, H. <i>et al.</i> (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. Salajegheh, M. <i>et al.</i> (2007) T cell receptor profiling in muscle and blood lymphocytes in sporadic inclusion body myositis. Neurology. 69 (17): 1672-9. 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. J Neuroimmunol. 187 (1-2): 166-74. Sasikala-Appukuttan, A.K. <i>et al.</i> (2013) Location and dynamics of the immunodominant CD8 T cell response to SIVΔnef immunization and SIVmac251 vaginal challenge. PLoS One. 8 (12): e81623.

9. VanNierop, G.P. *et al.* (2017) Phenotypic and functional characterization of T cells in white matter lesions of multiple sclerosis patients. [Acta Neuropathol. Jun 17 \[Epub ahead of print\]](#).
10. 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. [Hum Gene Ther. 28 \(6\): 493-509](#).

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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

Related Products

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL:FITC \(MCA6006F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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