

Datasheet: MCA351G

BATCH NUMBER 147809

Description:	RAT ANTI HUMAN CD8
Specificity:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YTC182.20
Isotype:	IgG2b
Quantity:	0.2 mg

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	▪			1/100 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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 - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide

Carrier Free Yes

Approx. Protein Concentrations Ig concentration 1.0mg/ml

Immunogen Mouse L cells transfected with human CD8 gene.

External Database Links

UniProt:

[P01732](#) [Related reagents](#)

[P10966](#) [Related reagents](#)

Entrez Gene:

[925](#) CD8A [Related reagents](#)

[926](#) CD8B [Related reagents](#)

Synonyms CD8B1, MAL

RRID AB_877504

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 in 100ul.

References

1. Jonker, M. *et al.* (1989) Reactivity of mAb specific for human CD markers with Rhesus monkey leucocytes. *Leucocyte Typing IV*. Oxford University Press p 1058-1063.
2. Yoshino, N. *et al.* (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. [Exp Anim. 49 \(2\): 97-110.](#)
3. Walton, L.J. *et al.* (1998) Intra-epithelial subpopulations of T lymphocytes and Langerhans cells in oral lichen planus. [J Oral Pathol Med. 27 \(3\): 116-23.](#)
4. Shacklett, B.L. *et al.* (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.](#)
5. 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.](#)

6. Salajegheh, M. *et al.* (2007) T cell receptor profiling in muscle and blood lymphocytes in sporadic inclusion body myositis. [Neurology. 69 \(17\): 1672-9.](#)
7. Salajegheh, M. *et al.* (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.](#)
8. Sasikala-Appukuttan, A.K. *et al.* (2013) Location and dynamics of the immunodominant CD8 T cell response to SIV Δ nef 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. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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
Acknowledgements	The isolation and characterisation of this cell line was carried out with the help of funds supplied by the Medical Research Council, United kingdom.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA351G 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

To

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

find a

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

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