Datasheet: MCA351GT

BATCH NUMBER 175147

Description:	RAT ANTI HUMAN CD8
Specificity:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YTC182.20
Isotype:	IgG2b
Quantity:	25 µg

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 Macaque
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_1102343
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. 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. 3. 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. 4. 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. 5. Salajegheh, M. *et al.* (2007) T cell receptor profiling in muscle and blood lymphocytes in sporadic inclusion body myositis. Neurology. 69 (17): 1672-9. 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. PLoS One. 8 (12): e81623.
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. Eur J Immunol. 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. Hum Gene Ther. 28 (6): 493-509.
10. van Nierop, G.P. *et al.* (2017) Phenotypic and functional characterization of T cells in white matter lesions of multiple sclerosis patients. Acta Neuropathol. 134 (3): 383-401.
11. Iacomino, G. *et al.* (2020) IBD: Role of intestinal compartments in the mucosal immune response. Immunobiology. 225 (1): 151849.

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.
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/MCA351GT
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL (MCA6006GA)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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