

Datasheet: MCA351GT

BATCH NUMBER 152975

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|----------------------|---------------------|
| 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 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_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 10⁶ 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.](#)

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|--------------------------------------|---|
| 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/MCA351GT 10040 |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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|--|---|
| 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

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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

'M367640:200529'

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