

## Datasheet: MCA351G

**BATCH NUMBER 164524**

<b>Description:</b>	RAT ANTI HUMAN CD8
<b>Specificity:</b>	CD8
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YTC182.20
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Cynomolgus monkey, Rhesus Monkey</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.09% Sodium Azide

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**Carrier Free** Yes

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**Approx. Protein Concentrations** Ig concentration 1.0mg/ml

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**Immunogen** Mouse L cells transfected with human CD8 gene.

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**External Database Links**

**UniProt:**

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

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

**Entrez Gene:**

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

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

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**Synonyms** CD8B1, MAL

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**RRID** AB\_877504

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**Fusion Partners** Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag.1.2.3 myeloma line.

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**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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

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**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 SIV $\Delta$ nef immunization and SIVmac251 vaginal challenge. [PLoS One. 8 \(12\): e81623.](#)

7. Willing, A. *et al.* (2014) CD8<sup>+</sup> 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, G.N. *et al.* (2017) Phenotypic and functional characterization of T cells in white matter lesions of multiple sclerosis patients. [Acta Neuropathol. 134 \(3\): 383-401.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA351G>  
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**Regulatory** For research purposes only

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## 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

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

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