

Datasheet: MCA4609PE

Description:	MOUSE ANTI HUMAN CD8:RPE
Specificity:	CD8
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	RPA-T8
Isotype:	IgG1
Quantity:	100 TESTS/0.5ml

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 product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Chimpanzee, Baboon, Cynomolgus monkey, Rhesus Monkey, 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 conjugated to R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578

Preparation

Purified IgG prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

External Database**Links****UniProt:**[P01732](#)[Related reagents](#)[P10966](#)[Related reagents](#)**Entrez Gene:**[925](#)

CD8A

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

CD8B

[Related reagents](#)

Synonyms

CD8B1, MAL

Specificity

Mouse anti Human CD8 monoclonal antibody, clone RPA-T8 recognizes the alpha-chain of the human CD8 antigen, a ~32 kDa single pass type 1 membrane glycoprotein containing a single Ig-like [V-type](#) domain. CD8 α forms either homodimers or disulphide bond linked heterodimers with the CD8 β chain. CD8 is expressed by thymocytes, the cytotoxic-suppressor subset of T cells and weakly by NK cells. CD8 functions as a receptor for MHC Class I molecules.

Flow Cytometry

Use 5ul of the suggested working dilution to label 1×10^6 cells or cells or 100ul human whole blood

References

1. Morbius, U. (1989) Cluster Report: CD8 *in* Leukocyte Typing IV, White Cell Differentiation Antigens, edited by Knapp W, Dorken B, Gilks WR, Rieber E, Schmidt RE, Stein H, Von Dem Borne AEG, Oxford University Press: pp 475-8.
2. Suranyi, M.G. *et al.* (1991) Lymphocyte adhesion molecules in T cell-mediated lysis of human kidney cells. [Kidney Int. 39 \(2\): 312-9.](#)
3. Aversa, G. *et al.* (1994) A monoclonal antibody (A6) recognizing a unique epitope restricted to CD45RO and RB isoforms of the leukocyte common antigen family identifies functional T cell subsets. [Cell Immunol. 158 \(2\): 314-28.](#)
4. SanSebastian, W. *et al.* (2013) Adeno-associated virus type 6 is retrogradely transported in the non-human primate brain. [Gene Ther. 20 \(12\): 1178-83.](#)
5. Samaranch, L. *et al.* (2014) AAV9-mediated expression of a non-self protein in nonhuman primate central nervous system triggers widespread neuroinflammation driven by antigen-presenting cell transduction. [Mol Ther. 22 \(2\): 329-37.](#)

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4609PE>
10041

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

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Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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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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