

Datasheet: MCA2811PE

Description:	MOUSE ANTI HUMAN CD45RA:RPE
Specificity:	CD45RA
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	HI100
Isotype:	IgG2b
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

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)

0.2% Bovine Serum Albumin

External Database**Links****UniProt:**[P08575](#)[Related reagents](#)**Entrez Gene:**[5788](#)

PTPRC

[Related reagents](#)

Synonyms

CD45

Specificity

Mouse anti Human CD45RA antibody, clone HI100 recognizes the human CD45RA cell surface antigen, the 220 kDa exon 4 splice variant of the leukocyte common antigen, also known as CD45, LCA or receptor-type tyrosine-protein phosphatase C. CD45 is a single pass type I transmembrane glycoprotein with two [fibronectin type III](#) domains and two [tyrosine-protein phosphatase](#) domains ([UniProt: P08575](#)). CD45RA is expressed by a subset of T lymphocytes, B lymphocytes and most monocytes.

Mutations in the CD45 gene can lead to severe combined immunodeficiency disease characterized by a complete lack of the T cell mediated immune response ([Tchilian *et al.* 2001](#)) and a susceptibility for the development of multiple sclerosis ([Jacobsen *et al.* 2000](#)).

Flow Cytometry

Use 5ul of the suggested working dilution to label 10^6 cells in 100ul

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/MCA2811PE>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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

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