

## Datasheet: MCA2811C

<b>Description:</b>	MOUSE ANTI HUMAN CD45RA:RPE-Cy5
<b>Specificity:</b>	CD45RA
<b>Format:</b>	RPE-CY5
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HI100
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Chimpanzee <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to RPE - Cy5 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation (nm)</b>	<b>Emission (nm)</b>
	PE-Cy5 488nm laser	496	667
	PE-Cy5 561nm laser	546	667
<b>Preparation</b>	Purified IgG prepared by affinity chromatography		
<b>Buffer Solution</b>	Phosphate buffered saline.		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="#">P08575</a>	<a href="#">Related reagents</a>	

**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 characterised 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.

**Shelf Life**

6 months from date of despatch.

**Acknowledgements**

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**Health And Safety Information**

Material Safety Datasheet Documentation #10041 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

**Regulatory**

For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE-Cy5 \(MCA691C\)](#)

### Recommended Useful Reagents

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

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

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