

Datasheet: MCA4704

**BATCH NUMBER 160215**

<b>Description:</b>	RAT ANTI MOUSE CD45RB
<b>Specificity:</b>	CD45RB
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C363-16A
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.25 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	▪			1/20 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml

<b>Immunogen</b>	Cloned mouse Th2 cell lines.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P06800</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">19264</a>    Ptprc    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Ly-5
<b>RRID</b>	AB_2269110
<b>Specificity</b>	<p><b>Rat anti Mouse CD45RB antibody, clone C363-16A</b> recognises an isoform of CD45 called CD45RB. CD45 is a member of the protein tyrosine phosphatase (PTP) family. The PTP proteins are signalling molecules that are involved in a variety of cellular processes including cell growth, differentiation, mitosis and oncogenesis. CD45 is an essential regulator of T- and B-cell antigen receptor signalling.</p> <p>CD45 has various isoforms generated by different splicing of exons. Clone C363-16A recognises CD45RB, generated by exon 5 splicing. This 220kDa glycoprotein is expressed on peripheral B-cells, naïve T-cells, thymocytes, macrophages and dendritic cells.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wu, Y. <i>et al.</i> (1997) CTLA-4-B7 interaction is sufficient to costimulate T cell clonal expansion. <a href="#">J Exp Med. 185:1327-35.</a></li> <li>2. Johnson, P. <i>et al.</i> (1989) Identification of the alternatively spliced exons of murine CD45 (T200) required for reactivity with B220 and other T200-restricted antibodies. <a href="#">J Exp Med. 169: 1179-84.</a></li> </ol>
<b>Further Reading</b>	1. Bottomly K. (1988) A functional dichotomy in CD4+ T lymphocytes. <a href="#">Immunol Today. 9:268-74. Review.</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA470410040">https://www.bio-rad-antibodies.com/SDS/MCA470410040</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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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](https://bio-rad-antibodies.com/datasheets)  
'M367945:200529'

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