

Datasheet: MCA4704

Description:	RAT ANTI MOUSE CD45RB
Specificity:	CD45RB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	C363-16A
Isotype:	IgG2a
Quantity:	0.25 mg

Product Details

RRID AB_2269110

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	▪			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.

Target Species Mouse

Product Form Purified IgG - liquid

Preparation Purified IgG prepared by affinity chromatography

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 0.5mg/ml

Immunogen Cloned mouse Th2 cell lines.

External Database UniProt:

Links [P06800](#) [Related reagents](#)

Entrez Gene:

[19264](#) Ptprc [Related reagents](#)

Synonyms Ly-5

Specificity **Rat anti Mouse CD45RB antibody, clone C363-16A** 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.

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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Wu, Y. *et al.* (1997) CTLA-4-B7 interaction is sufficient to costimulate T cell clonal expansion. [J Exp Med. 185:1327-35.](#)
2. Johnson, P. *et al.* (1989) Identification of the alternatively spliced exons of murine CD45 (T200) required for reactivity with B220 and other T200-restricted antibodies. [J Exp Med. 169: 1179-84.](#)

Further Reading

1. Bottomly K. (1988) A functional dichotomy in CD4+ T lymphocytes. [Immunol Today. 9:268-74. Review.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@800

Recommended Negative Controls

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

Recommended Useful Reagents

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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