

Datasheet: MCA2395

Description:	RAT ANTI MOUSE CD13
Specificity:	CD13
Other names:	AMINOPEPTIDASE N
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ER-BMDM1
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 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 on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Balb/c bone marrow derived macrophages.
External Database Links	<p>UniProt: P97449 Related reagents</p> <p>Entrez Gene: 16790 Anpep Related reagents</p>
Synonyms	Lap1, Lap-1
RRID	AB_609577
Fusion Partners	Cells from immunized rats were fused with cells of the rat Y3-Ag1.2.3 myeloma cell line.
Specificity	<p>Rat anti Mouse CD13 antibody, clone ER-BMDM1 recognizes the murine homologue of human CD13, a ~160 kDa cell surface antigen with aminopeptidase N activity.</p> <p>In steady state mice, the CD13 antigen is expressed primarily by dendritic cell and mature macrophage subpopulations. The level of CD13 antigen expression increases with maturation, after the monocytic stage. Bone marrow cells and peripheral blood monocytes are reported to be CD13 negative while thioglycollate-elicited macrophages express high levels of CD13.</p> <p>Dendritic cells, interdigitating dendritic cells, veiled cells and Langerhans cells all express CD13, which is reported to be involved in the development of immature dendritic cells from monocytes.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Leenen, P.J. <i>et al.</i> (1998) Heterogeneity of mouse spleen dendritic cells: in vivo phagocytic activity, expression of macrophage markers, and subpopulation turnover. J Immunol. 160 (5): 2166-73. 2. Sen, A. <i>et al.</i> (2012) Innate immune response to homologous rotavirus infection in the small intestinal villous epithelium at single-cell resolution. Proc Natl Acad Sci U S A. 109: 20667-72. 3. Onogi, Y. <i>et al.</i> (2017) PDGFRβ Regulates Adipose Tissue Expansion and Glucose Metabolism via Vascular Remodeling in Diet-Induced Obesity. Diabetes. 66 (4): 1008-21. 4. Rudnicki, M. <i>et al.</i> (2022) Quantitative Methods to Assess Adipose Vasculature. Methods Mol Biol. 2441: 201-21.
Further Reading	1. van der Velden, V.H. <i>et al.</i> (2001) CD13/aminopeptidase N involvement in dendritic cell maturation. Leukemia. 15 (1): 190-1.

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2395 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M414989:221215'

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