

Datasheet: MCA2395

**BATCH NUMBER 1609**

<b>Description:</b>	RAT ANTI MOUSE CD13
<b>Specificity:</b>	CD13
<b>Other names:</b>	AMINOPEPTIDASE N
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ER-BMDM1
<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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody 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 antibody 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 on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Balb/c bone marrow derived macrophages.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P97449</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16790</a> Anpep    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Lap1, Lap-1
<b>RRID</b>	AB_609577
<b>Fusion Partners</b>	Cells from immunised rats were fused with cells of the rat Y3-Ag1.2.3 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse CD13 antibody, clone ER-BMDM1</b> 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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Leenen, P.J. <i>et al.</i> (1992) The monoclonal antibody ER-BMDM1 recognizes a macrophage and dendritic cell differentiation antigen with aminopeptidase activity. <a href="#">Eur J Immunol. 22 (6): 1567-72.</a></li> <li>2. 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. <a href="#">J Immunol. 160 (5): 2166-73.</a></li> <li>3. Sen, A. <i>et al.</i> (2012) Innate immune response to homologous rotavirus infection in the small intestinal villous epithelium at single-cell resolution. <a href="#">Proc Natl Acad Sci U S A. 109: 20667-72.</a></li> </ol>
<b>Further Reading</b>	1. van der Velden, V.H. <i>et al.</i> (2001) CD13/aminopeptidase N involvement in dendritic cell maturation. <a href="#">Leukemia. 15 (1): 190-1.</a>

**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**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>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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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://www.bio-rad-antibodies.com/datasheets)  
'M366811:200529'

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