

Datasheet: MCA2352GA

Description:	HAMSTER ANTI MOUSE CD121a
Specificity:	CD121a
Other names:	INTERLEUKIN 1 RECEPTOR TYPE 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JAMA-147
Isotype:	IgG
Quantity:	0.1 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	▪			1/25 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays (1)			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Bio-Rad recommend the use of [MCA2352XZ](#) for functional assays.**

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

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Extracellular domain of murine IL-1R.
External Database Links	<p>UniProt: P13504 Related reagents</p> <p>Entrez Gene: 16177 Il1r1 Related reagents</p>
Synonyms	Il-1r1, Il1ra
RRID	AB_566480
Fusion Partners	Spleen cells from immunised Armenian Hamster were fused with cells of the mouse P3X63.Ag 8-653 myeloma cell line.
Specificity	<p>Hamster anti Mouse CD121a monoclonal antibody, clone JAMA-147 recognizes murine CD121a, the ~80 kDa type I interleukin-1 receptor. CD121a is a single pass type I membrane glycoprotein, weakly expressed on most cells and tissues including T lymphocytes, thymocytes, epithelial cells and dendritic cells, with stronger expression reported on fibroblasts.</p> <p>The ligands for CD121a are the interleukin-1 (IL-1) family members; IL-1 alpha; IL-1 beta and IL-1 receptor antagonist. IL-1 is a mediator of inflammation and can elicit a variety of other biological responses through binding to CD121a.</p> <p>Hamster anti mouse CD121 antibody, clone JAMA-147 has been reported to block IL-1 dependent cellular responses (Rogers et al. 1992).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Scarim, A.L. <i>et al.</i> (1997) Evidence for the presence of type I IL-1 receptors on beta-cells of islets of Langerhans. Biochim Biophys Acta. 1361 (3): 313-20. 2. Merrick, J.C. <i>et al.</i> (1997) Lymphocyte apoptosis during early phase of Listeria infection in mice. Am J Pathol. 151 (3): 785-92. 3. Beckerman, K.P. <i>et al.</i> (1993) Release of nitric oxide during the T cell-independent pathway of macrophage activation. Its role in resistance to <i>Listeria monocytogenes</i>. J Immunol. 150 (3): 888-95. 4. Kavanagh, D.P. <i>et al.</i> (2013) Mechanisms of adhesion and subsequent actions of a haematopoietic stem cell line, HPC-7, in the injured murine intestinal microcirculation <i>in vivo</i>. PLoS One. 8 (3): e59150.
Storage	<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</p>

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

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](https://www.bio-rad-antibodies.com/datasheets)

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