

## Datasheet: MCA2352A488

<b>Description:</b>	HAMSTER ANTI MOUSE CD121a:Alexa Fluor® 488
<b>Specificity:</b>	CD121a
<b>Other names:</b>	INTERLEUKIN 1 RECEPTOR TYPE 1
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	JAMA-147
<b>Isotype:</b>	IgG
<b>Quantity:</b>	100 TESTS/1ml

## 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	▪			Neat - 1/5
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.**

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519
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Alexa Fluor®488	495	519					
<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</b>	0.09% Sodium Azide						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						

<b>Immunogen</b>	Extracellular domain of murine IL-1R.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13504</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">16177</a>    Il1r1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Il-1r1, Il1ra
<b>RRID</b>	AB_566477
<b>Fusion Partners</b>	Spleen cells from immunised Armenian Hamster were fused with cells of the mouse P3X63.Ag 8-653 myeloma cell line.
<b>Specificity</b>	<p><b>Hamster anti Mouse CD121a monoclonal antibody, clone JAMA-147</b> 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 (<a href="#">Rogers et al. 1992</a>).</p>
<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Biochim Biophys Acta. 1361 (3): 313-20.</a></li> <li>2. Merrick, J.C. <i>et al.</i> (1997) Lymphocyte apoptosis during early phase of Listeria infection in mice. <a href="#">Am J Pathol. 151 (3): 785-92.</a></li> <li>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>. <a href="#">J Immunol. 150 (3): 888-95.</a></li> <li>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>. <a href="#">PLoS One. 8 (3): e59150.</a></li> </ol>
<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. This product is photosensitive and should be</p>

protected from light.

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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA2356A488\)](#)

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