

Datasheet: MCA2352A647

Description:	HAMSTER ANTI MOUSE CD121a:Alexa Fluor® 647
Specificity:	CD121a
Other names:	INTERLEUKIN 1 RECEPTOR TYPE 1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	JAMA-147
Isotype:	IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10
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 conjugated to Alexa Fluor® 647- liquid						
Max Ex/Em	<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®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®647	650	665					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.05 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_566478
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	<p>Use 10ul of the suggested working dilution to label 10⁶ 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 (BUF041A/B).</p>
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. 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.

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>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA2356A647\)](#)

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