

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 | UniProt: |

Links [P13504](#) [Related reagents](#)

Entrez Gene:

[16177](#) IL1r1 [Related reagents](#)

Synonyms IL-1r1, IL1ra

Fusion Partners Spleen cells from immunised Armenian Hamster were fused with cells of the mouse P3X63.Ag 8-653 myeloma cell line.

Specificity **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.

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.

Hamster anti mouse CD121 antibody, clone JAMA-147 has been reported to block IL-1 dependent cellular responses ([Rogers et al. 1992](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Wolyniec, K. *et al.* (2012) E6AP ubiquitin ligase regulates PML-induced senescence in Myc-driven lymphomagenesis [Blood. 120: 822-32](#)
2. Scarim, A.L. *et al.* (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.](#)
3. Merrick, J.C. *et al.* (1997) Lymphocyte apoptosis during early phase of Listeria infection in mice. [Am J Pathol. 151 \(3\): 785-92.](#)
4. Beckerman, K.P. *et al.* (1993) Release of nitric oxide during the T cell-independent pathway of macrophage activation. Its role in resistance to *Listeria monocytogenes*. [J Immunol. 150 \(3\): 888-95.](#)
5. Kavanagh, D.P. *et al.* (2013) Mechanisms of adhesion and subsequent actions of a haematopoietic stem cell line, HPC-7, in the injured murine intestinal microcirculation *in vivo*. [PLoS One. 8 \(3\): e59150.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®549](#), [DyLight®649](#), [DyLight®800](#),
[FITC](#)

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

Recommended Negative Controls

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

North & South Tel: +1 800 265 7376

America 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

'M287897:160607'

Printed on 16 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)