

Datasheet: MCA1369A488T

| Description: | HAMSTER ANTI MOUSE CD11c:Alexa Fluor® 488 |
|---------------|---|
| Specificity: | CD11c |
| Other names: | INTEGRIN ALPHA X CHAIN |
| Format: | ALEXA FLUOR® 488 |
| Product Type: | Monoclonal Antibody |
| Clone: | N418 |
| lsotype: | lgG |
| Quantity: | 25 TESTS/0.25ml |
| | |

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 1/10 - 1/100 | | | | | | | |
| | 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. | | | | | | | |
| Target Species | Mouse | | | | | | | |
| Product Form | Purified IgG conjugated to Alexa Fluor® 488 - liquid | | | | | | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm |) Emiss | sion Max (nm) | | | | |
| | Alexa Fluor®488 | 495 | | 519 | | | | |
| 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 | Mouse spleen dendritic cells. | | | | | | | |
| External Database Links | UniProt: <u>Q9QXH4</u> <u>Rela</u> | ted reagents | | | | | | |

Entrez Gene:

16411 Itgax Related reagents

| Fusion Partners | Spleen cells from immunised Armenian Hamster were fused with cells of the Sp2/0 myeloma cell line. |
|-----------------|--|
| Specificity | Hamster anti Mouse CD11c antibody, clone N418 recognizes the murine homolog of human CD11c, also known as Integrin Alpha X, a 150/90 kDa member of the beta 2 integrin family. In mice, CD11c is primarily expressed by dendritic cells. |
| | Hamster anti Mouse CD11c antibody, clone N418 has been reported to enhance antigen specific responses when used to target dendritic cells <i>in vivo</i> (<u>Wang <i>et al.</i> 2000</u>). |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| | 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 (<u>BUF041A/B</u>). |
| References | Crowley, M.T. <i>et al.</i> (1990) Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. JImmunol Methods. 133 (1): 55-66. Metlay, J.P. <i>et al.</i> (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 171 (5): 1753-71. Wang, H. <i>et al.</i> (2000) Rapid antibody responses by low-dose, single-step, dendritic cell-targeted immunization. Proc Natl Acad Sci U S A. 97 (2): 847-52. Lundqvist, J. <i>et al.</i> (2005) The beta2 integrin CD11c distinguishes a subset of cytotoxic pulmonary T cells with potent antiviral effects in vitro and in vivo. <u>Respir Res. 6: 70.</u> Beyer, M. <i>et al.</i> (2005) The beta2 integrin CD11c distinguishes a subset of cytotoxic pulmonary T cells with potent antiviral effects in vitro and in vivo. <u>Respir Res. 6: 70.</u> Goupil, M. <i>et al.</i> (2005) The mannose receptor is expressed by subsets of APC in non-lymphoid organs. <u>BMC Immunol. 6:4.</u> Bjorck, P. (2004) Dendritic cells exposed to herpes simplex virus <i>in vivo</i> do not produce IFN-alpha after rechallenge with virus <i>in vitro</i> and exhibit decreased T cell alloreactivity. J Immunol. 172: 5396-404. Dahlen, E. <i>et al.</i> (1998) Dendritic cells and macrophages are the first and major producers of TNF-alpha in pancreatic islets in the nonobese diabetic mouse. J Immunol. 160: 3585-93. de Jersey, J. <i>et al.</i> (2002) Activation of CD8 T cells by antigen expressed in the pituitary gland. J Immunol. 169: 6753-9. Dimier-Poisson, I. <i>et al.</i> (2003) Protective mucosal Th2 immune response against Toxoplasma gondii by murine mesenteric lymph node dendritic cells. Infect Immun. 71: 5254-65. Gonzalez-Juarrero, M. and Orme, I.M. (2001) Characterization of murine lung dendritic cells infected with <i>Mycobacterium tuberculosis</i>. Infect Immun. 168: 57-64. Mercier, S. <i>et al.</i> (2002) Identification of multiple isola |

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| Storage | Store at +4°C or at -20°C if preferred. |
| | This product should be stored undiluted |
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| | Storage in frost-free freezers is not recommended. This product is photosensitive and should be |
| | 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. |
| Shelf Life | 18 months from date of despatch. |
| | |
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| Information | 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf |
| Regulatory | For research purposes only |
| | |

Related Products

Recommended Negative Controls

Recommended Useful Reagents

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'M299859:170105'

Printed on 20 Jun 2018

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