

Datasheet: MCA2125

BATCH NUMBER 180316

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|----------------------|-------------------------------|
| Description: | RAT ANTI MOUSE CD49b |
| Specificity: | CD49b |
| Other names: | INTEGRIN ALPHA 2 CHAIN, VLA-2 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | DX5 |
| Isotype: | IgM |
| Quantity: | 0.25 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 | ▪ | | | |
| Immunohistology - Frozen | | ▪ | | |
| Immunohistology - Paraffin | | ▪ | | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | | | ▪ | |

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.

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| Target Species | Mouse |
| Product Form | Purified IgM - liquid |
| Buffer Solution | Borate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| Approx. Protein Concentrations | IgM concentration 0.5 mg/ml |
| Immunogen | RIL-2 propagated NK1.1+ cells from C57BL/6 mice. |

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|--------------------------------|--|
| External Database Links | UniProt: Q62469 Related reagents |
| | Entrez Gene: 16398 Itga2 Related reagents |
| RRID | AB_324336 |
| Fusion Partners | Spleen cells from immunised Lewis rats were fused with the mouse SP2/0 myeloma cell line. |
| Specificity | <p>Rat anti Mouse CD49b monoclonal antibody, clone DX5 recognizes mouse CD49b, also known as Very Late Antigen-2 (VLA-2) or alpha-2 integrin. CD49b is a ~160kDa single pass type I membrane protein expressed by NK cells and a small subset of T-cells (Pellicci <i>et al.</i> 2005).</p> <p>Rat anti mouse CD49b, clone DX5 stains NK cells from all mouse strains tested including Balb/c mice (Arese <i>et al.</i> 2001). CD49b acts as a receptor for collagen, laminin, fibronectin and E-cadherin (Carafoli <i>et al.</i> 2013).</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. Arase, H. <i>et al.</i> (2001) Cutting edge: the mouse NK cell-associated antigen recognized by DX5 monoclonal antibody is CD49b (alpha 2 integrin, very late antigen-2). J Immunol. 167 (3): 1141-4. 2. Jacobs, N. <i>et al.</i> (2006) Intradermal immune response after infection with Vaccinia virus. J Gen Virol. 87: 1157-61. 3. Yin, Y. <i>et al.</i> (2013) Phosphatidylserine-targeting antibody induces M1 macrophage polarization and promotes myeloid-derived suppressor cell differentiation. Cancer Immunol Res. 1 (4): 256-68. 4. Lin, C.Y. <i>et al.</i> (2008) Combined immunogene therapy of IL-6 and IL-15 enhances anti-tumor activity through augmented NK cytotoxicity. Cancer Lett. 272: 285-95. 5. Thomson, R.C. <i>et al.</i> (2008) Expansion and activation of NK cell populations in a gammaherpesvirus infection. Scand J Immunol. 67: 489-95. 6. Pais, R. <i>et al.</i> (2012) An intracameral injection of antigen induces in situ chemokines and cytokines required for the generation of circulating immunoregulatory monocytes. PLoS One. 7: e43182. |
| Storage | <p>Store at +4°C.</p> <p>DO NOT FREEZE</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| Guarantee | 12 months from date of despatch |

**Health And Safety
Information**

Material Safety Datasheet documentation #10077 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2125>
10077

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgM (302001...) [Biotin](#)

Goat Anti Rat IgM (STAR116...) [HRP](#)

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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)

'M366227:200529'

Printed on 19 Jan 2024