

ARG21031 anti-CD49b / Integrin alpha 2 antibody [DX5] (APC-Cyanine 7)

Package: 50 µg
Store at: 4°C

Summary

| | |
|---------------------|---|
| Product Description | APC-Cyanine 7-conjugated Rat Monoclonal antibody [DX5] recognizes CD49b / Integrin alpha 2 |
| Tested Reactivity | Ms |
| Tested Application | FACS, IHC-Fr, IHC-P |
| Specificity | The clone DX5 reacts with CD49b, also known as very late antigen-2 (VLA-2) and α2 integrin. The antibody stains the majority of NK cells and a small subpopulation of T cells in all mouse strains tested (e.g., A/J, AKR, BALB/c, C3H/HeJ, C57BL/6, C57BL/10, C57BR, C58, CBA/Ca, CBA/J, DBA/1, DBA/2, SJL, SWR). The clone DX5 has not been demonstrated to have activating or blocking activity. |
| Host | Rat |
| Clonality | Monoclonal |
| Clone | DX5 |
| Isotype | IgM, kappa |
| Target Name | CD49b / Integrin alpha 2 |
| Antigen Species | Mouse |
| Immunogen | NK cells isolated from C57BL/6 mice |
| Conjugation | APC-Cyanine 7 |
| Alternate Names | Collagen receptor; VLA-2 subunit alpha; HPA-5; CD49B; CD49 antigen-like family member B; GPIa; VLA-2; CD antigen CD49b; BR; VLAA2; Platelet membrane glycoprotein Ia; Integrin alpha-2 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|--------------------------------|
| | FACS | < 0.2 µg/10 ⁶ cells |
| | IHC-Fr | Assay-dependent |
| | IHC-P | Assay-dependent |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Calculated Mw | 129 kDa | |

Properties

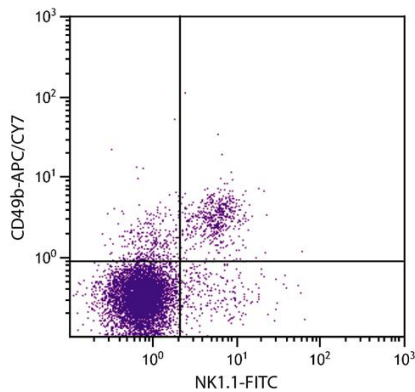
| | |
|--------------|-------------------------------------|
| Form | Liquid |
| Buffer | PBS, 0.1% Sodium azide and Sucrose. |
| Preservative | 0.1% Sodium azide |
| Stabilizer | Sucrose |

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|---------------------|--|
| Concentration | 0.1 mg/ml |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|---|
| Database links | GeneID: 16398 Mouse Swiss-port # Q62469 Mouse |
| Gene Symbol | ITGA2 |
| Gene Full Name | integrin alpha 2 |
| Background | This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012] |
| Function | Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. [UniProt] |

Images



ARG21031 anti-CD49b / Integrin alpha 2 antibody [DX5] (APC-Cyanine 7) FACS image

Flow Cytometry: C57BL/6 Mouse splenocytes stained with ARG21031 anti-CD49b / Integrin alpha 2 antibody [DX5] (APC-Cyanine 7) and [ARG22072](#) anti-NK1.1 / CD161bc antibody [PK136] (FITC).