# ARG22981
# anti-CD49b / Integrin alpha 2 antibody [16B4]

Package: 100 µg
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody [16B4] recognizes CD49b / Integrin alpha 2 |
| Tested Reactivity | Hu |
| Species Does Not React With | Rat |
| Tested Application | ELISA, FACS, FuncSt, ICC/IF, IHC-Fr, IHC-P, IP, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 16B4 |
| Isotype | IgG1 |
| Target Name | CD49b / Integrin alpha 2 |
| Species | Human |
| Immunogen | Purified Human beta 1 preparation from HT1080 fibrosarcoma cell extract. |
| Conjugation | Un-conjugated |
| 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 |
|---|---|
| ELISA | 10 µg/ml |
| FACS | 30 µg/ml |
| FuncSt | Assay-dependent |
| ICC/IF | Assay-dependent |
| IHC-Fr | 30 - 40 µg/ml |
| IHC-P | Assay-dependent |
| IP | 25 - 50 µg/ml |
| WB | Assay-dependent |

Application Note

Functional study: This product contains sodium azide, removal by dialysis is recommended prior to use in functional assays.
IHC-P: Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

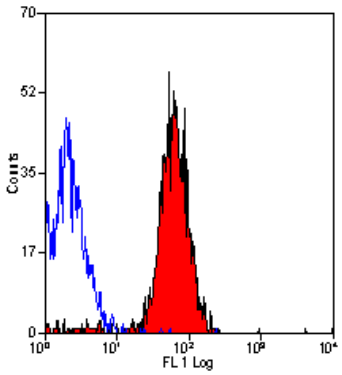
## Properties

| | |
|---|---|
| Form | Liquid |
| Purification | Purification with Protein G. |
| Buffer | PBS and 0.09% Sodium azide |
| Preservative | 0.09% Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

| | |
|---|---|
| Gene Symbol | ITGA2 |
| Gene Full Name | integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) |
| 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] |
| Calculated Mw | 129 kDa |

## Images




ARG22981 anti-CD49b / Integrin alpha 2 antibody [16B4] FACS image

Flow Cytometry: Human peripheral blood platelets stained with ARG22981 anti-CD49b / Integrin alpha 2 antibody [16B4].