

## Mouse CD49b Monoclonal Antibody | anti-CD49b antibody

MOUSE ANTI HUMAN CD49b:FITC

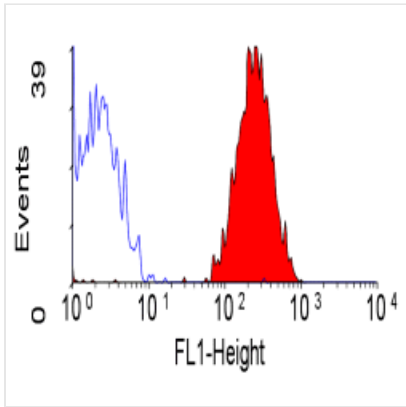
|                              |                      |                                                         |
|------------------------------|----------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA49121</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

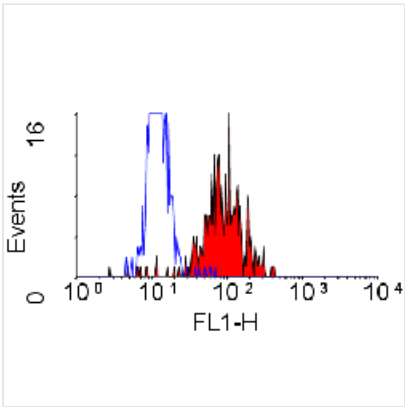
CD49b; Monoclonal Antibody; MOUSE ANTI HUMAN CD49b:FITC; anti-CD49b antibody

### PRODUCT SPECIFICATIONS

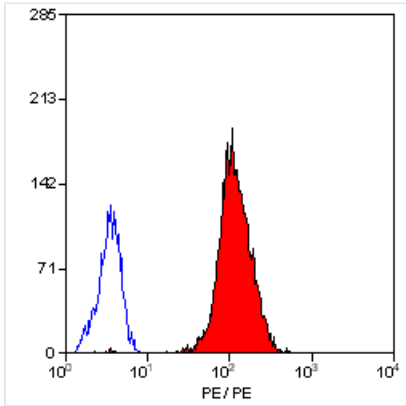
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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone Number                                    | AK7                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                     | FITC<br>Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid.                                                                                                                                                                                                                                                                                                                                           |
| Concentration                                   | IgG concentration 0.1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                 | 1,181                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for anti-CD49b antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perservative Stabilisers                        | 0.09% Sodium Azide<br>1% Bovine Serum Albumin<br>Preparation                                                                                                                                                                                                                                                                                                                                                                      |
| Fusion Partners                                 | Spleen cells from immunised mice were fused with cells of the mouse NSI myeloma cell line.<br>Buffer Solution                                                                                                                                                                                                                                                                                                                     |
| Target Species                                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                         | Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. 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.<br>Shelf Life: 18 months from date of despatch. |



**Application Data**  
Staining of human peripheral blood platelets with Mouse anti Human CD49b:FITC



**Application Data**  
Staining of human peripheral blood monocytes with Mouse anti Human CD49b



**Application Data**  
Staining of human peripheral blood platelets with Mouse anti Human CD49b:RPE

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD49b antibody | Mouse anti Human CD49b antibody, clone AK7 recognizes the integrin alpha 2 subunit, which is a 160kD glycoprotein that non-covalently associates with the 130kD integrin beta 1 subunit to form the VLA-2 complex. CD49b is expressed by platelets, long term cultivated T cells, approximately 50% of monocytes and most adherent cell lines. Mouse anti Human CD49b antibody, clone AK7 inhibits cell attachment to collagen. |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| NCBI GI #                        | 116295258                                                    |
| NCBI GeneID                      | 3673                                                         |
| NCBI Accession #                 | NP_002194.2                                                  |
| NCBI GenBank Nucleotide #        | NM_002203.3                                                  |
| UniProt Accession #              | P17301; Q14595                                               |
| Molecular Weight                 | 129,295 Da                                                   |
| NCBI Official Full Name          | integrin alpha-2                                             |
| NCBI Official Synonym Full Names | integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) |
| NCBI Official Symbol             | ITGA2                                                        |
| NCBI Official Synonym Symbols    | BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2                         |

|                            |                                                                                                                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Protein Information   | integrin alpha-2; CD49 antigen-like family member B; VLA2 receptor, alpha-2 subunit; collagen receptor; human platelet alloantigen system 5; platelet antigen Br; platelet glycoprotein GPIa; platelet membrane glycoprotein Ia; very late activation protein 2 receptor, alpha-2 subunit |
| UniProt Protein Name       | Integrin alpha-2                                                                                                                                                                                                                                                                          |
| UniProt Gene Name          | ITGA2                                                                                                                                                                                                                                                                                     |
| UniProt Synonym Gene Names | CD49B; GPIa                                                                                                                                                                                                                                                                               |
| UniProt Entry Name         | ITA2_HUMAN                                                                                                                                                                                                                                                                                |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/monoclonal/cd49b-antibody-clone-ak7-flow-cytometry-elisa/49121>