



# Anti-ITGA2 monoclonal antibody, clone AK7 [R-PE] (CABT-46294MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b>   | 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. Flow Cytometry Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood |
| <b>Specificity</b>        | ITGA2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>            | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source/Host</b>        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species Reactivity</b> | Human, Baboon, Cynomolgus monkey, Rhesus monkey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clone</b>              | AK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Conjugate</b>          | PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>       | FC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Format</b>             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Size</b>               | 100 tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Preservative</b>       | 0.09% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>            | Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.                                                                                                                                                                                                                                              |

# GENE INFORMATION

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| Gene Name           | <a href="#">ITGA2 integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor) [ Homo sapiens (human) ]</a>                                                                                                                                                     |
| Official Symbol     | ITGA2                                                                                                                                                                                                                                                           |
| Synonyms            | ITGA2; integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor); BR; GPIa; CD49B; HPA-5; VLA-2; VLAA2; integrin alpha-2; collagen receptor; platelet antigen Br; platelet glycoprotein GPIa; VLA2 receptor, alpha-2 subunit; CD49 antigen-like family membe |
| Entrez Gene ID      | <a href="#">3673</a>                                                                                                                                                                                                                                            |
| Protein Refseq      | <a href="#">NP_002194</a>                                                                                                                                                                                                                                       |
| UniProt ID          | P17301                                                                                                                                                                                                                                                          |
| Chromosome Location | 5q11.2                                                                                                                                                                                                                                                          |
| Pathway             | Arf6 trafficking events; Arrhythmogenic right ventricular cardiomyopathy; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Axon guidance; CHL1 interactions; CXCR4-mediated signaling events; Developmental Biology; Dilated cardiomyopathy;             |
| Function            | collagen binding; collagen binding involved in cell-matrix adhesion; collagen receptor activity; integrin binding; laminin binding; metal ion binding; protein binding; protein heterodimerization activity; virus receptor activity;                           |