

PE Anti-Human Integrin alpha 1/CD49a Rabbit Recombinant Antibody

Catalog Number: PE-98675-2

Basic Information

Catalog Number:

PE-98675-2

Concentration:

100 tests, 5 µl/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2089

GenBank Accession Number:

BC137121

GeneID (NCBI):

3672

UNIPROT ID:

P56199

Full Name:

integrin, alpha 1

Calculated MW:

1179 aa, 131 kDa

Purification Method:

Protein A purification

CloneNo.:

25198487

Recommended Dilutions:FC: 5 µl per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

496 nm, 565 nm / 578 nm

Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human peripheral blood leukocytes, HeLa cells

Background Information

The integrins are a superfamily of cell adhesion receptors that bind to extracellular matrix ligands, cell-surface ligands, and soluble ligands (PMID: 17543136). They are transmembrane $\alpha\beta$ heterodimers and at least 24 distinct integrin heterodimers are formed by the combination of 18 α and eight β known subunits (PMID: 17543136; 20029421). In addition to mediating cell adhesion, integrins also play important roles in modulating signal transduction pathways that control cellular responses including migration, proliferation, differentiation, and apoptosis (PMID: 19118207). Integrin alpha-1 (ITGA1, CD49a) combines with the beta 1 subunit (ITGB1, CD29) to form a cell-surface receptor for collagen and laminin. This receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis (PMID: 2475259; 3257425).

Storage

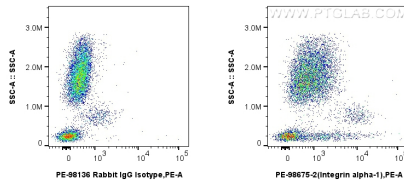
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

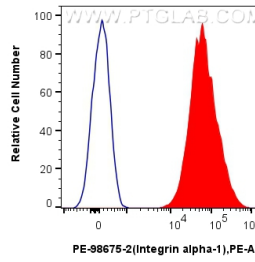
Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

Selected Validation Data



1x10⁶ human peripheral blood leukocytes were surface stained with 5 ul PE Anti-Human Integrin alpha 1/CD49a Rabbit RecAb (PE-98675-2, Clone: 251984B7) or PE Rabbit IgG Isotype Control Recombinant Antibody (PE-98136, Clone: 240953C9). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ HeLa cells were surface stained with 5 ul PE Anti-Human Integrin alpha 1/CD49a Rabbit RecAb (PE-98675-2, Clone: 251984B7) (red) or PE Rabbit IgG Isotype Control Recombinant Antibody (PE-98136, Clone: 240953C9) (blue). Cells were not fixed.