

# FcZero-rAb® PE Anti-Human Integrin alpha 6 Rabbit Recombinant Antibody

Catalog Number: PE-FcA98257

## Basic Information

**Catalog Number:**

PE-FcA98257

**Concentration:**

100 tests, 5 µl/test

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC136456

**GeneID (NCBI):**

3655

**UNIPROT ID:**

P23229

**Full Name:**

integrin, alpha 6

**Calculated MW:**

1073 aa, 119 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

241703B5

**Recommended Dilutions:**FC: 5 µl per 10<sup>6</sup> cells in a 100 µl suspension**Excitation/Emission maximum wavelengths:**

496 nm, 565 nm / 578 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

human

**Positive Controls:**

FC : human PBMCs,

## 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  $\alpha$  and eight  $\beta$  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 6 (ITGA6, also known as CD49f or VLA-6) is a 120-kDa single-pass type 1 transmembrane glycoprotein, which combines with the beta 1 subunit (ITGB1, CD29) or beta 4 subunit (ITGB4, CD104) to form heterodimeric laminin receptors (PMID: 1976638; 2351695). Integrin alpha 6 mediates cell-to-cell and cell-to-stroma adhesion. It has also been found in many different stem cell populations and is involved in homing and connecting stem cells to their niches and regulating self-renewal mechanisms in stem cells (PMID: 28494695).

## Storage

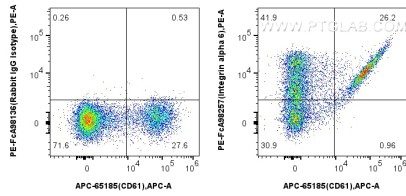
**Storage:**

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

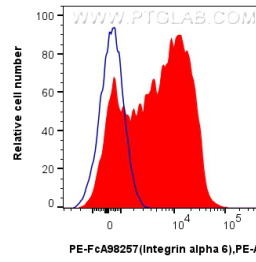
**Storage Buffer:**

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

## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with APC Anti-Human CD61 (VIPL2), and 5 ul PE Anti-Human Integrin alpha 6 Rabbit RecAb (PE-FcA98257, Clone: 241703B5) or FcZero-rAb® PE Rabbit IgG Isotype Control Recombinant Antibody (PE-FcA98136, Clone: 240953C9). Cells were not fixed.



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul PE Anti-Human Integrin alpha 6 Rabbit RecAb (PE-FcA98257, Clone: 241703B5) (red) or FcZero-rAb® PE Rabbit IgG Isotype Control Recombinant Antibody (PE-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.