

FcZero-rAb[®] CoraLite[®] Plus 488 Anti-Human Integrin alpha 6 Rabbit Recombinant Antibody

Catalog Number: **CL488-FcA98257**

Basic Information

Catalog Number:

CL488-FcA98257

Concentration:

100tests, 5 ul/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 ul per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

493 nm / 522 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 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 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

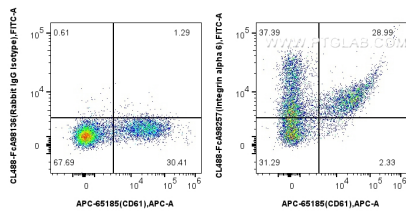
Storage:

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

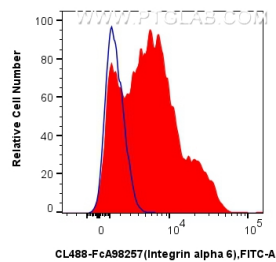
Storage Buffer:

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

Selected Validation Data



1x10⁶ human PBMCs were surface stained with APC Anti-Human CD61 (VIPL2), and 5 ul CoraLite® Plus 488 Anti-Human Integrin alpha 6 Rabbit RecAb (CL488-FcA98257, Clone: 241703B5) or FcZero-rAb® CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-FcA98136, Clone: 240953C9). Cells were not fixed.



1x10⁶ human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human Integrin alpha 6 Rabbit RecAb (CL488-FcA98257, Clone: 241703B5) (red) or FcZero-rAb® CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-FcA98136, Clone: 240953C9) (blue). Cells were not fixed.