

For Research Use Only

# Biotin Anti-Human CD49b (AK7) Mouse IgG2a Recombinant Antibody

Catalog Number: Biotin-65583



## Basic Information

Catalog Number:

Biotin-65583

Size:

100ug, 500 ug/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

NM\_002203

GeneID (NCBI):

3673

UNIPROT ID:

P17301

Full Name:

integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)

Calculated MW:

126 kDa

Purification Method:

Protein A purification

CloneNo.:

AK7

Recommended Dilutions:

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

-

## Applications

Tested Applications:

FC

Species Specificity:

human

Positive Controls:

FC : human peripheral blood platelets,

## Background Information

CD49b, also known as alpha2 integrin, is a type I transmembrane glycoprotein which forms an adhesion molecule VLA-2 with beta1 integrin. CD49b is a receptor for many (extracellular) matrix and non-matrix molecules (PMID: 23847623). CD49b is expressed on numerous cell types including platelets, activated T cells, B cells, and monocytes. CD49b activation skews NK cell effector function to a phenotype that exhibits elevated IFN- $\gamma$  production with a concomitant inhibition of motility and cytolytic function (PMID: 32971468, 32762681). The Anti-Human CD49b antibody, clone AK7, is derived from Human platelets.

## 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, pH7.3

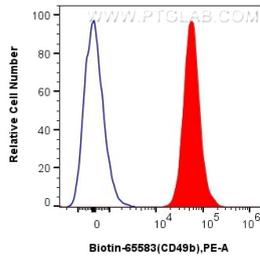
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## Selected Validation Data



1x10<sup>6</sup> human peripheral blood platelets were surface stained with 0.25 ug Biotin Anti-Human CD49b (AK7) Mouse IgG2a RecAb (Biotin-65583, Clone:AK7) and Streptavidin-PE Conjugate (PE-PF00030) (red) or unstained cell (blue). Cells were not fixed.