

For Research Use Only

# CoraLite® Plus 647 Anti-Human CD49b (AK7)

Catalog Number: CL647-65252



## Basic Information

### Catalog Number:

CL647-65252

### Size:

100 tests, 5 µl/test

### Source:

Mouse

### Isotype:

IgG1, kappa

### GenBank Accession Number:

NM\_002203

### GeneID (NCBI):

3673

### Full Name:

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

### Calculated MW:

126 kDa

### Purification Method:

Affinity purification

### CloneNo.:

AK7

### Recommended Dilutions:

FC: 5 µl per 10<sup>6</sup> cells in 100 µl suspension

### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

FC

### Species Specificity:

Human

### Positive Controls:

FC : human PBMCs,

## 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-γ 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 and 0.5% BSA, pH7.3

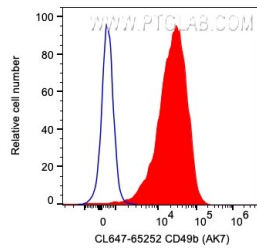
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface stained with 5 ul CoraLite® Plus 647 Anti-Human CD49b (CL647-65252, Clone: AK7). Cells were not fixed. Monocytes were gated.