

For Research Use Only

# Cardinal Red™ Anti-Human CD49b (AK7)



Catalog Number: **CR-65252**

## Basic Information

<b>Catalog Number:</b> CR-65252	<b>GenBank Accession Number:</b> NM_002203	<b>Purification Method:</b> N/A
<b>Size:</b> 100tests , 5 µl/test	<b>GeneID (NCBI):</b> 3673	<b>CloneNo.:</b> AK7
<b>Source:</b> Mouse	<b>Full Name:</b> integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	<b>Excitation/Emission maxima wavelengths:</b> 592 nm / 611 nm
<b>Isotype:</b> IgG1, kappa	<b>Calculated MW:</b> 126 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
Human

## 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.

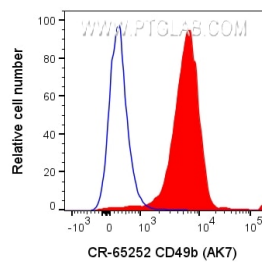
## Storage

**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.

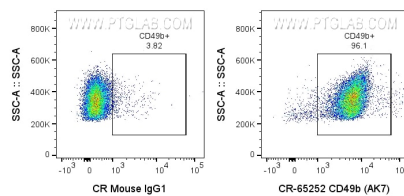
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with 5 ul Cardinal Red™ Anti-Human CD49b (AK7) (CR-65252) or Cardinal Red™ Mouse IgG1 Isotype Control. Cells were treated with FC receptor block prior to staining. Cells were not fixed. Monocytes were gated.



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