

For Research Use Only

CoraLite® Plus 594 Anti-Human CD49b (AK7)

Catalog Number: CL594-65252



Basic Information

Catalog Number: CL594-65252	GenBank Accession Number: NM_002203	Purification Method: N/A
Concentration: 100 tests, 5 µl/test	GeneID (NCBI): 3673	CloneNo.: AK7
Source: Mouse	UNIPROT ID: P17301	Recommended Dilutions: FC: 5 µl per 10 ⁶ cells in 100 µl suspension
Isotype: IgG1, kappa	Full Name: integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	Excitation/Emission maxima wavelengths: 594 nm / 615 nm
	Calculated MW: 126 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : human PBMCs,
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, pH7.3

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

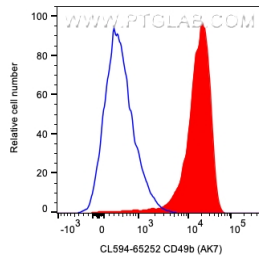
T: 4006900926

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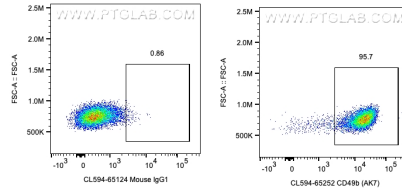
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Selected Validation Data



1x10⁶ human PBMCs were surface stained with 5 ul CoraLite® Plus 594 Anti-Human CD49b (CL594-65252, Clone:AK7) or CoraLite® 594 Mouse IgG1 Isotype Control (CL594-65124, Clone: MOPC-21). Cells were treated with FC Receptor Block prior to staining. Cells were not fixed. Monocytes were gated.



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