

## 30-1071: Anti-CD49b / Integrin alpha 2 Monoclonal Antibody (Clone:AK7)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	AK7
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	ITGA2
<b>Gene ID :</b>	3673
<b>Uniprot ID :</b>	P17301
<b>Format :</b>	Purified
<b>Alternative Name :</b>	ITGA2,CD49B
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Human platelets

### Description

CD49b / Integrin alpha 2 (ITGA2; alpha 2 subunit of VLA-2) heterodimerizes with CD29 to form the VLA-2 integrin alpha2/beta1 complex, which serves as a receptor for type I collagen, laminin, and E-cadherin. It also acts as a receptor for echovirus. Expressed on platelets, activated lymphocytes, monocytes, fibroblasts, epithelial and endothelial cells, CD49b mediates adhesion of these cells to the extracellular matrix. This interaction supports e.g. T cell proliferation and cytokine production, or wound healing. Defect in CD49b is associated with bleeding disorder platelet-type 9. Antibodies against CD49b are found in several immune disorders, including neonatal alloimmune thrombocytopenia.

### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

**Flow Cytometry Immunoprecipitation Western Blotting Immunohistochemistry (frozen sections) Immunocytochemistry ELISA**

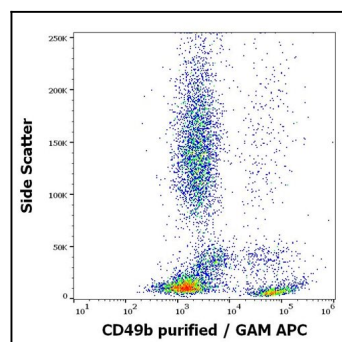


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49b (AK7) purified antibody (concentration in sample 1 µg/ml) GAM APC.

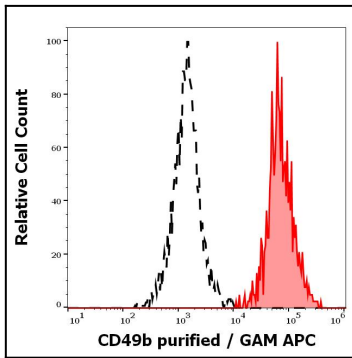


Figure 2: Separation of human CD49b positive thrombocytes (red-filled) from CD49b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49b (AK7) purified antibody (concentration in sample 1 µg/ml) GAM APC.