

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

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

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

Application Note

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

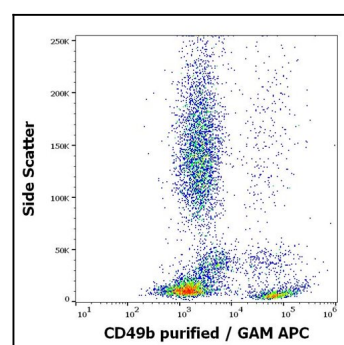


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49b (AK7) purified antibody (concentration in sample 1 µg/ml) GAM APC.

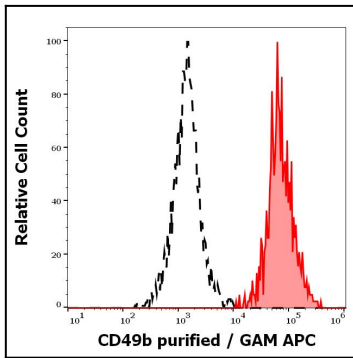


Figure 2: Separation of human CD49b positive thrombocytes (red-filled) from CD49b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49b (AK7) purified antibody (concentration in sample 1 µg/ml) GAM APC.