9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

30-1085: Anti-CD49d / Integrin alpha 4 Monoclonal Antibody (Clone:9F10)

Clonality :	Monoclonal
Clone Name :	9F10
Application :	FACS
Reactivity :	Human
Gene :	ITGA4
Gene ID :	3676
Uniprot ID :	P13612
Format :	Purified
Alternative Name :	ITGA4,CD49D
Isotype :	Mouse IgG1

Description

CD49d / integrin alpha 4, unlike other alpha integrins, neither contains an I-domain, nor undergoes disulfide-linked cleavage. It associates with beta 7 chain to form alpha 4 / beta 7 integrin, and with beta 1 chain (CD29) to form VLA-4 integrin. These complexes are important for lymphocyte migration from circulation into tissue (binding VCAM-1) and homing of T cell subsets to PeyerÂ´s patches (binding MadCAM-1), but VLA-4 is also target for invasive bacteria which contain invasin. CD49d is essential for differentiation and migration of hematopoietic stem cells by their adhesion to bone marrow stromal cells, and provides a costimulatory signal to TCR-CD3 complex by inducing phosphorylation of some focal adhesion proteins.

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: Recommended dilution: 0.5-4 µg/ml.
Immunohistochemistry: Recommended dilution: 5-10 µg/ml.

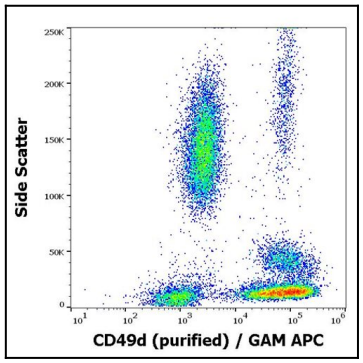


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49d (9F10) purified antibody (concentration in sample 1 µg/ml) GAM APC.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

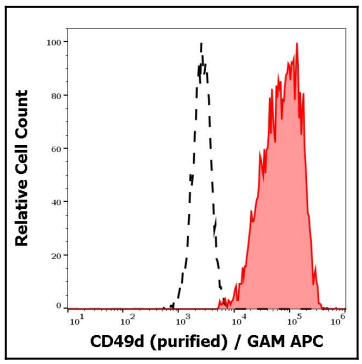


Figure 2: Separation of human CD49d positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49d (9F10) purified antibody (concentration in sample 1 µg/ml) GAM APC.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.