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30-2561: Anti-Human CD49d FITC (Clone : 9F10)

Clonality :	Monoclonal
Clone Name :	9F10
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	ITGA4
Gene ID :	3676
Alternative Name :	ITGA4, VLA-4 alpha, integrin subunit alpha 4
Isotype :	Mouse IgG1 kappa

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. Specificity : The mouse monoclonal antibody 9F10 recognizes an extracellular epitope of CD49d (alpha 4 integrin), a 145-180 kDa type I transmembrane glycoprotein expressed on B and T cells, monocytes, eosinophils, basophils, NK cells, and

dendritic cells, but not platelets.

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Amount :	100 tests
Purification :	The purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 \tilde{A} \hat{A} reagent / 100 \tilde{A} \hat{A} of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.



Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49d (9F10) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood).



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Figure 2 : Separation of human CD49d positive lymphocytes (red-filled) from human blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD49d (9F10) FITC antibody (4 μ l reagent / 100 μ l of peripheral whole blood).