

Datasheet for ABIN6579824
anti-ITGA4 antibody (FITC)

2 Images

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Overview

Quantity:	100 tests
Target:	ITGA4
Reactivity:	Human, Cow, Dog, Horse, Cat, Sheep, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Clone:	9F10
Isotype:	IgG1 kappa
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.
Cross-Reactivity (Details):	Human, Non-Human Primates, Bovine, Canine (Dog), Equine (Horse), Feline (Cat), Sheep
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	ITGA4
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Target Details

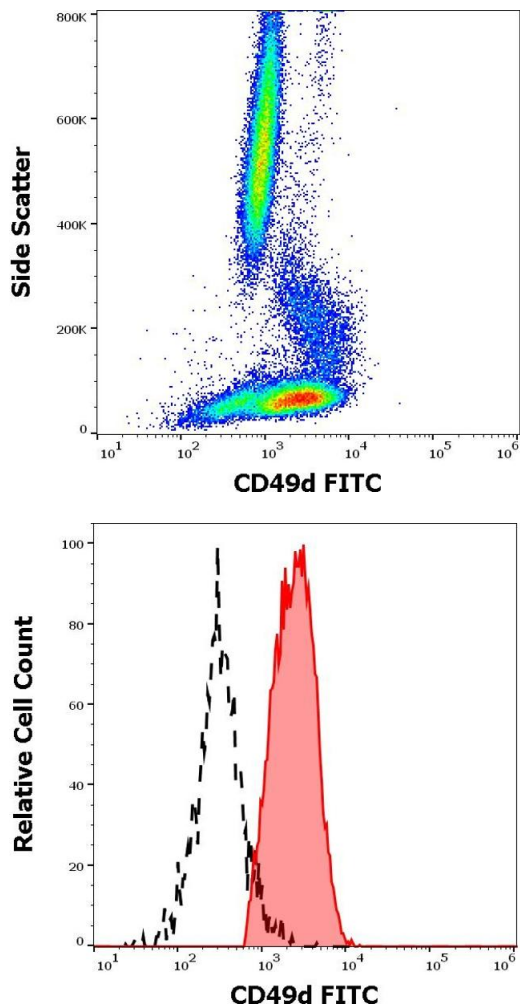
Alternative Name:	CD49d / Integrin alpha 4 (ITGA4 Products)
Background:	Integrin subunit alpha 4,CD49d / integrin alpha 4, unlike other alpha integrins, neither contains an I-domain, nor undergoes disulfide-linked cleavage. It associates with beta 7 chain to form alpha 4 / beta 7 integrin, and with beta 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 Peyer'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.,ITGA4, VLA-4 alpha
Gene ID:	3676
UniProt:	P13612
Pathways:	Integrin Complex

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 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).

Flow Cytometry

Image 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).