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Datasheet for ABIN4888502
anti-ITGA2 antibody (FITC)

2 Images

Overview

Quantity:	100 tests
Target:	ITGA2
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA2 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human platelets
Clone:	AK7
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody AK7 recognizes an extracellular epitope of CD49b, a 160-165 kDa alpha subunit of VLA-2 integrin complex expressed on platelets, megakaryocytes, activated T and B cells, monocytes, epithelial cells, endothelial cells and fibroblasts.
Cross-Reactivity (Details):	Human, Non-Human Primates
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

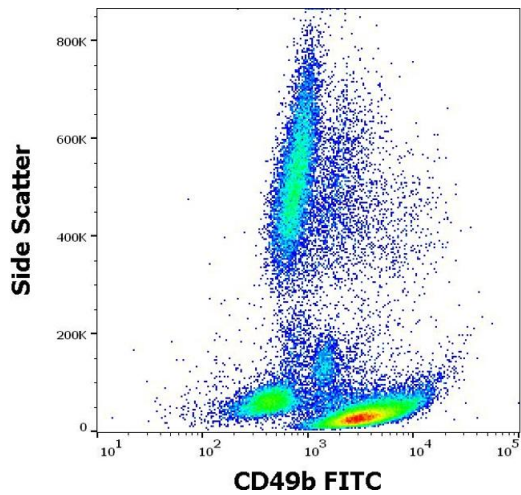
Target:	ITGA2
Alternative Name:	CD49b / Integrin alpha 2 (ITGA2 Products)
Background:	Integrin subunit alpha 2,CD49b the integrin alpha 2 chain, associates with CD29 (integrin beta 1 chain) to form VLA-2 integrin complex, which plays a critical role in the processes of lymphocyte adhesion and activation. VLA-2 serves as a receptor for collagen, laminin, and fibronectin and also regulates the extracellular matrix synthesis and organization. CD49b has been used to identify NK cells, and coexpressed with CD223 (LAG-3) it identifies CD4+ T regulatory type 1 cells (Tr1),ITGA2, VLA-2 alpha, GPIa
Gene ID:	3673
UniProt:	P17301
Pathways:	CXCR4-mediated Signaling Events , Smooth Muscle Cell Migration , 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

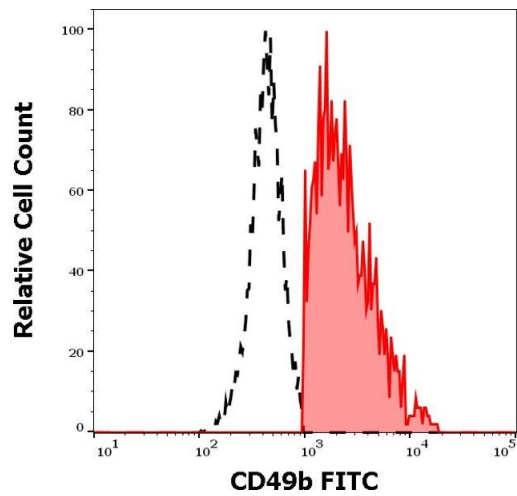
Handling

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 CD49b (AK7) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Separation of human CD49b positive lymphocytes (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) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood).