

Datasheet for ABIN2967175

**anti-ITGA4 antibody****2** Images[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	ITGA4
Reactivity:	Human, Cow, Dog, Horse, Cat, Sheep, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func)

## 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

## Target Details

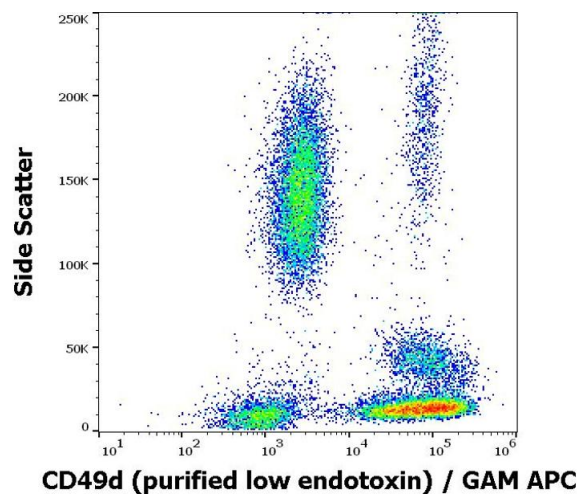
Target:	ITGA4
Alternative Name:	CD49d / Integrin alpha 4 ( <a href="#">ITGA4 Products</a> )
Background:	Integrin subunit alpha 4,CD49d / integrin alpha 4, unlike other alpha integrins, neither contains an I-domain, nor undergoes disulfide-linked cleavage. It associates with beta 7 chain to form alpha 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:	<a href="#">P13612</a>
Pathways:	<a href="#">Integrin Complex</a>

## Application Details

Application Notes:	Functional application: In vitro T cell costimulation. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

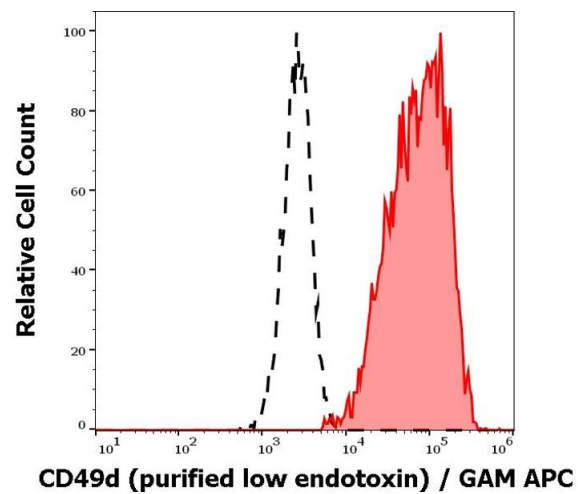
## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49d (9F10) purified antibody (low endotoxin, concentration in sample 1 µg/mL) GAM APC.



Flow Cytometry

**Image 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 (low endotoxin, concentration in sample 1 µg/mL) GAM APC.