

Datasheet for ABIN6722089

anti-ITGA4 antibody (Alexa Fluor 647)[Go to Product page](#)

Overview

Quantity:	20 tests
Target:	ITGA4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is conjugated to Alexa Fluor 647
Application:	Flow Cytometry (FACS)

Product Details

Clone:	BU49
Isotype:	IgG1 kappa

Target Details

Target:	ITGA4
Alternative Name:	CD49d (ITGA4 Products)
Background:	Synonyms: Integrin alpha-4, ITGA4, CD49 antigen-like family member D, Integrin alpha-IV, VLA-4 subunit alpha, CD49d Background: CD49d is a 150 kD α integrin chain known as $\alpha 4$ integrin or VLA-4 α chain. It forms a heterodimer with either integrin $\beta 1$ ($\alpha 4 \beta 1$, VLA-4) or $\beta 7$ ($\alpha 4 \beta 7$). CD49d is expressed broadly on T lymphocytes, B lymphocytes, monocytes, thymocytes, eosinophils, basophils, mast cells, NK cells, dendritic cells, and some non-hematopoietic cells, but not on normal red blood cells,

Target Details

platelets or neutrophils. VLA-4 binds to VCAM-1 (CD106) and fibronectin. $\alpha 4\beta 7$ is the receptor for VCAM-1 and MAdCAM-1. CD49d participates in mononuclear cell trafficking to endothelial sites of inflammation and has roles in cell-cell interactions and cell adhesion to extracellular matrices. CD49d is involved in lymphocyte migration, T cell activation, and hematopoietic stem cell differentiation. CD49d is a marker to isolate pure populations of Treg cells due to its absence on Foxp3+ cells.

Gene ID: 3676

UniProt: [P13612](#)

Pathways: [Integrin Complex](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Buffer: PBS with 0.05 % Proclin300, 1 % BSA

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.