

Datasheet for ABIN7536955
anti-ITGA4 antibody (PE-Cy7)



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Overview

Quantity:	100 tests
Target:	ITGA4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is conjugated to PE-Cy7
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	PE/Cyanine7 Anti-Human CD49d Antibody [HP1/2]
Clone:	HP1-2
Isotype:	IgG2a, kappa
Purification:	Purified

Target Details

Target:	ITGA4
Alternative Name:	CD49d (ITGA4 Products)
Background:	CD49d,VLA-4 α chain, $\alpha 4$ integrin, Integrin $\alpha 4$ chain, ITGA4,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

Target Details

non-hematopoietic cells, but not on normal red blood cells, 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: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 5 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Comment: Matching Isotype Control: (ABIN7469781)

Restrictions: For Research Use only

Handling

Buffer: Phosphate buffered solution, pH 7.2, containing 0.09 % stabilizer and 1 % protein protectant.

Storage: 4 °C

Storage Comment: This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.

Expiry Date: 12 months