

# Human Integrin α4/CD49d PE-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 7.2R

Catalog Number: FAB1354P

100 Tests

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects the human Integrin α4/CD49d subunit in flow cytometry.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 7.2R		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	DX-3 human melanoma cell line		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

# Flow Cytometry

Integrin α4/CD49d

Detection of Integrin α4/CD49d in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Mouse Anti-Human Integrin α4/CD49d PE-conjugated Monoclonal Antibody (Catalog # FAB1354P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

### PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

# BACKGROUND

The Integrin  $\alpha$ 4 subunit, also known as CD49d and VLA-4  $\alpha$  subunit, forms heterodimers with Integrin  $\beta$ 1 (CD29) or  $\beta$ 7. Integrins  $\alpha$ 4 $\beta$ 1 (VLA4) and  $\alpha$ 4 $\beta$ 7 are both receptors for fibronectin and VCAM. Integrin  $\alpha$ 4 $\beta$ 7 also binds the mucosal addressin cell adhesion molecule (MAdCAM-1). On the cell surface, VLA4 will participate in homotypic binding between endothelial cells and leukocytes. The extracellular domains of human and mouse Integrin  $\alpha$ 4 share 85% as sequence identity.

