

Human Integrin α4/CD49d Antibody

Monoclonal Mouse IgG₁ Clone # 7.2R Catalog Number: MAB1354

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Integrin α4/CD49d. Recognizes the human Integrin α4/CD49d subunit.		
Source	Monoclonal Mouse IgG ₁ Clone # 7.2R		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	DX-3 human melanoma cell line		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

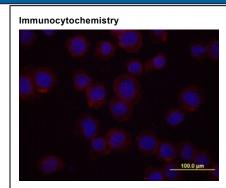
APPLICATIONS

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	0.25 μg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 μg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

Flow Cytometry 100 80 101 102 103 104 105 Integrin a4/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 Monoclonal Antibody (Catalog # MAB1354, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.



Integrin α4/CD49d in U937 Human Cell Line. Integrin α4/ CD49d was detected in immersion fixed U937 human histiocytic lymphoma cell line using 10 µg/mL Mouse Anti-Human Integrin α4/CD49d Monoclonal Antibody (Catalog # MAB1354) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS

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

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The $\alpha 4$ subunit, also known as CD49d and VLA-4 α subunit, forms heterodimers with Integrin $\beta 1$ (CD29) or $\beta 7$. Integrins $\alpha 4\beta 1$ and $\alpha 4\beta 7$ are receptors for fibronectin and VCAM. Integrin $\alpha 4\beta 1$ also binds the mucosal addressin cell adhesion molecule (MAdCAM-1).

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