

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α 4/CD49d.
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 μ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

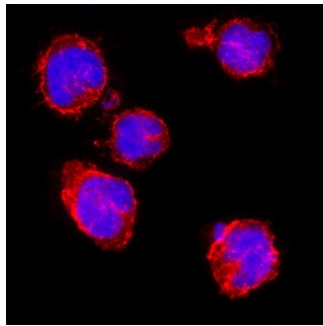
APPLICATIONS

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	2.5 μ g/10 ⁶ cells	Human peripheral blood lymphocytes
Immunocytochemistry	8-25 μ g/mL	Immersion fixed MOLT-4 human acute lymphoblastic leukemia cell line

DATA

Immunocytochemistry



Integrin α 4/CD49d in MOLT-4 Human Cell Line. Integrin α 4/CD49d was detected in immersion fixed MOLT-4 human acute lymphoblastic leukemia cell line using Mouse Anti-Human Integrin α 4/CD49d Biotinylated Monoclonal Antibody (Catalog # BAM1354) at 8 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to cell surface. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 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 α 4 subunit, also known as CD49d and VLA-4 α subunit, forms heterodimers with Integrin β 1 (CD29) or β 7. Integrins α 4 β 1 and α 4 β 7 are receptors for fibronectin and VCAM. Integrin α 4 β 1 also binds the mucosal addressin cell adhesion molecule (MAdCAM-1).