

DESCRIPTION

Species Reactivity	Human/Mouse/Bovine
Specificity	Detects human, mouse, and bovine Integrin α 6/CD49f. Recognizes an epitope in the extracellular domain of the Integrin α 6 subunit.
Source	Monoclonal Rat IgG _{2A} Clone # GoH3
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse mammary tumor cells
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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 μ L/10 ⁶ cells	See Below

DATA

<p>Flow Cytometry</p> <p>Detection of Integrin α6/CD49f in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with Rat Anti-Human/Mouse/Bovine Integrin α6/CD49f APC-conjugated Monoclonal Antibody (Catalog # FAB13501A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Flow Cytometry</p> <p>Detection of Integrin α6/CD49f in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Human/Mouse/Bovine Integrin α6/CD49f APC-conjugated Monoclonal Antibody (Catalog # FAB13501A) and Rat Anti-Mouse CD3 PE-conjugated Monoclonal Antibody (Catalog # FAB4841P). Quadrant markers were set based on control antibody staining (Catalog # IC006A). View our protocol for Staining Membrane-associated Proteins.</p>
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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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Integrin α 6 (also VLA-6, CD49f and ITA6) is a 130-150 kDa member of the Integrin α chain family of molecules. Mature Integrin α 6 is a 1107 amino acid (aa) type I transmembrane glycoprotein that contains a 1027 aa extracellular region and a 93 aa cytoplasmic tail. The ECD is cleaved to generate a disulfide-linked dimer that shows a 125 kDa heavy chain (aa 24-938), and a 30-31 kDa membrane-bound light chain (aa 942-1130). Integrin α 6 forms a nondisulfide-linked heterodimeric complex with both integrin beta 1 and beta 4. Each complex serves as a receptor for laminin.