

DESCRIPTION

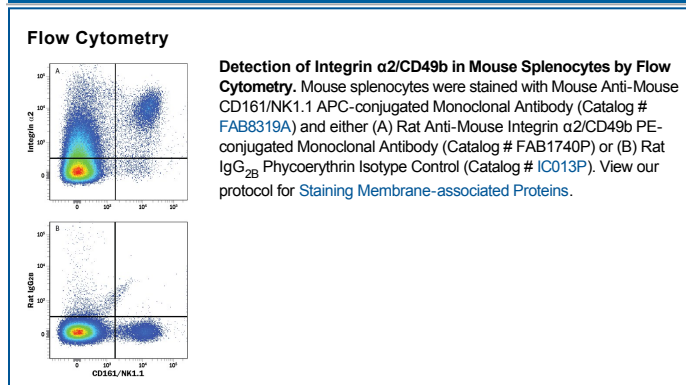
Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\alpha 2$ /CD49b in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Integrin $\alpha 3$, $\alpha 4$, $\alpha 5$, αE , or αV is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 235033
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Integrin $\alpha 2$ /CD49b Tyr27-Thr1129 Accession # Q62469
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 μ L/10 ⁶ cells	See Below

DATA



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

The Integrin $\alpha 2$ subunit, also known as CD49b and VLA-2 α subunit, forms a heterodimer with $\beta 1$ Integrin. The $\alpha 2\beta 1$ Integrin is a collagen receptor that binds expressing cells to collagen and regulates collagen and collagenase secretion. Notably, this subunit has an "I" domain that is resistant to proteolysis. Over amino acids (aa) 27-1129, mouse Integrin $\alpha 2$ shares 80% aa sequence identity with human Integrin $\alpha 2$.