

Mouse Integrin α2/CD49b PE-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 235033

Catalog Number: FAB1740P 100 TESTS

| DESCRIPTION | | |
|--------------------|--|--|
| Species Reactivity | Mouse | |
| Specificity | Detects mouse Integrin α2/CD49b in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Integrin α3, α4, α5, αE, οι 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 α2/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 Shee (SDS) for additional information and handling instructions. | |

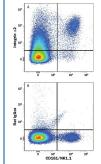
APPLICATIONS

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 ⁶ cells | See Below |

DATA

Flow Cytometry



Detection of Integrin α 2/CD49b in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Mouse Anti-Mouse CD161/NK1.1 APC-conjugated Monoclonal Antibody (Catalog # FAB8319A) and either (A) Rat Anti-Mouse Integrin α 2/CD49b PE-conjugated Monoclonal Antibody (Catalog # FAB1740P) or (B) Rat $\lg G_{28}$ Phycoerythrin Isotype Control (Catalog # IC013P). 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 α 2 subunit, also known as CD49b and VLA-2 α subunit, forms a heterodimer with β 1 Integrin. The α 2 β 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 α 2 shares 80% as sequence identity with human Integrin α 2.

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