

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\alpha 2/CD49b$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human Integrin αM is observed and less than 1% cross-reactivity with recombinant mouse (rm) Integrin $\alpha 5$ and rmIntegrin αE is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Integrin $\alpha 2/CD49b$ Tyr27-Thr1129 Accession # Q62469
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

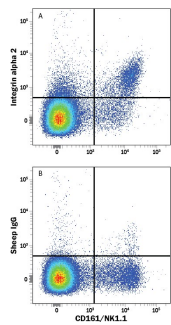
APPLICATIONS

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
Western Blot	0.1 μ g/mL	Recombinant Mouse Integrin $\alpha 2/CD49b$
Flow Cytometry	0.25 μ g/ 10^6 cells	See Below
Immunocytochemistry	5-15 μ g/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

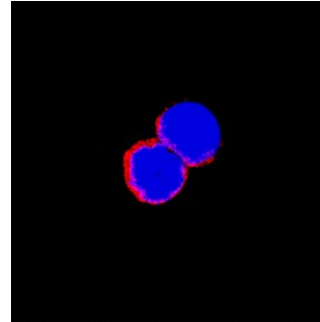
DATA

Flow Cytometry



Detection of Integrin $\alpha 2/CD49b$ in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Mouse Anti-Mouse CD161/NK1.1 PE-conjugated Monoclonal Antibody (Catalog # FAB8319P) and either (A) Sheep Anti-Mouse Integrin $\alpha 2/CD49b$ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1740) or (B) Normal Sheep IgG Control (Catalog # 5-001-A) followed by Allophycocyanin-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # F0127).

Immunocytochemistry



Integrin $\alpha 2/CD49b$ in Mouse Splenocytes. Integrin $\alpha 2/CD49b$ was detected in immersion fixed mouse splenocytes using Sheep Anti-Mouse Integrin $\alpha 2/CD49b$ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1740) at 15 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <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 Integrin family proteins are heterodimeric transmembrane receptors comprised of an α and a β subunit. The Integrin $\alpha 2$ subunit is expressed in monocytes, platelets, B, T and NK cells. It forms a non-covalent heterodimer with the Integrin $\beta 1$ subunit. Integrin $\alpha 2/\beta 1$ binds collagen and laminin and activates intracellular signaling pathways.