

## DESCRIPTION

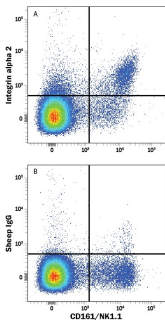
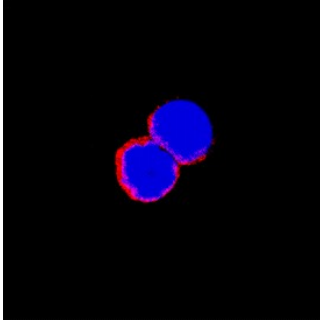
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Integrin $\alpha 2/CD49b$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human Integrin $\alpha M$ is observed and less than 1% cross-reactivity with recombinant mouse (rm) Integrin $\alpha 5$ and rmIntegrin $\alpha E$ is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Integrin $\alpha 2/CD49b$ Tyr27-Thr1129 Accession # Q62469
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ 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
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Mouse Integrin $\alpha 2/CD49b$
<b>Flow Cytometry</b>	0.25 $\mu$ g/ $10^6$ cells	See Below
<b>Immunocytochemistry</b>	5-15 $\mu$ g/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA

<p><b>Flow Cytometry</b></p>  <p><b>Detection of Integrin <math>\alpha 2/CD49b</math> in Mouse Splenocytes by Flow Cytometry.</b> Mouse splenocytes were stained with Mouse Anti-Mouse CD161/NK1.1 PE-conjugated Monoclonal Antibody (Catalog # FAB8319P) and either (A) Sheep Anti-Mouse Integrin <math>\alpha 2/CD49b</math> 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).</p>	<p><b>Immunocytochemistry</b></p>  <p><b>Integrin <math>\alpha 2/CD49b</math> in Mouse Splenocytes.</b> Integrin <math>\alpha 2/CD49b</math> was detected in immersion fixed mouse splenocytes using Sheep Anti-Mouse Integrin <math>\alpha 2/CD49b</math> Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1740) at 15 <math>\mu</math>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 <a href="#">Fluorescent ICC Staining of Non-adherent Cells</a>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

The Integrin family proteins are heterodimeric transmembrane receptors comprised of an  $\alpha$  and a  $\beta$  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.