

DESCRIPTION

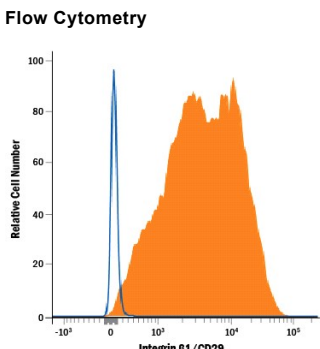
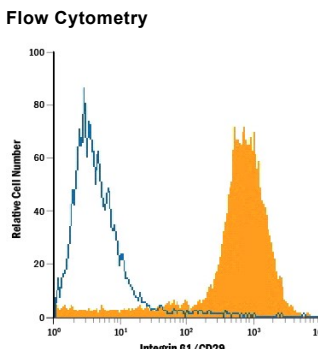
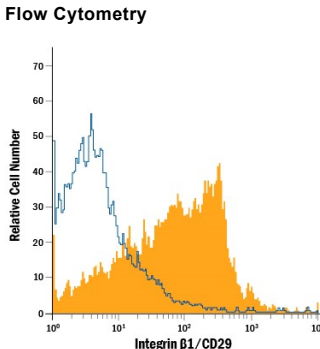
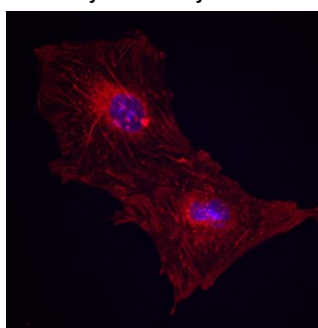
Species Reactivity	Human/Porcine/Equine
Specificity	Detects human Integrin β 1/CD29 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Integrin β 3, β 4, β 5, β 8, recombinant mouse Integrin β 1, β 2, β 6, or β 7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 419127
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin β 1/CD29 Gln21-Asp728 (predicted) Accession # P05556
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 either lyophilized or 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	1 μ g/mL	Recombinant Human Integrin β 1/CD29 under non-reducing conditions only
Flow Cytometry	0.25 μ g/10 ⁶ cells	See Below
Immunocytochemistry	8-25 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

<p>Flow Cytometry</p>  <p>Detection of Integrin β1/CD29 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human/Porcine/Equine Integrin β1/CD29 Monoclonal Antibody (Catalog # MAB17783, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p>Flow Cytometry</p>  <p>Detection of Integrin β1/CD29 in Porcine Mesenchymal Stem Cells by Flow Cytometry. Porcine mesenchymal stem cells were stained with Mouse Anti-Human/Porcine/Equine Integrin β1/CD29 Monoclonal Antibody (Catalog # MAB17783, filled histogram) or isotype control antibody (Catalog # MAB004, open histogram), followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>
<p>Flow Cytometry</p>  <p>Detection of Integrin β1/CD29 in Equine PBMCs by Flow Cytometry. Equine peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human/Porcine/Equine Integrin β1/CD29 Monoclonal Antibody (Catalog # MAB17783, filled histogram) or isotype control antibody (Catalog # MAB004, open histogram), followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p>Immunocytochemistry</p>  <p>Integrin β1/CD29 in Porcine Mesenchymal Stem Cells. Integrin β1/CD29 was detected in immersion fixed porcine mesenchymal stem cells using Mouse Anti-Human/Porcine/Equine Integrin β1/CD29 Monoclonal Antibody (Catalog # MAB17783) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.</p>

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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 β 1 subunit, also known as VLA- β chain or CD29, associates with at least ten different Integrin α subunits. Within aa 21-728, human Integrin β 1 subunit is 94% aa identical to pig and sheep Integrin β 1 subunits.