

DESCRIPTION

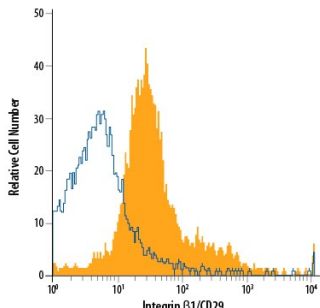
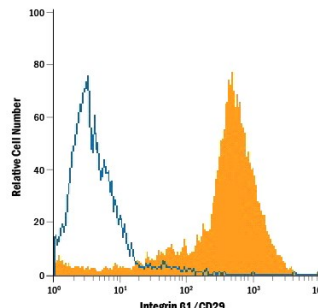
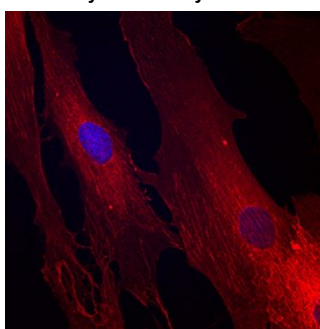
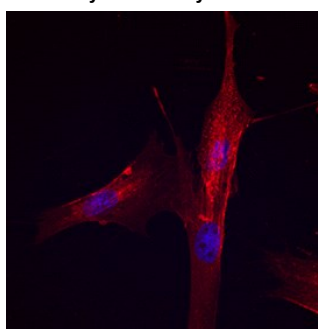
Species Reactivity	Human/Canine
Specificity	Detects human Integrin β 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant mouse (rm) Integrin β 1 is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin β 2, rhIntegrin β 3, rmIntegrin β 6, and rmIntegrin β 7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin β 1 isoform 1A Gln21-Asp728 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 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 Human Integrin β 1/CD29
Flow Cytometry	2.5 μ g/10 ⁶ cells	See Below
Immunocytochemistry	5-15 μ g/mL	See Below

DATA

<p>Flow Cytometry</p>  <p>Detection of Integrin β1/CD29 in Canine PBMCs by Flow Cytometry. Canine peripheral blood mononuclear cells (PBMCs) were stained with Goat Anti-Human/Canine Integrin β1/CD29 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1778, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).</p>	<p>Flow Cytometry</p>  <p>Detection of Integrin β1/CD29 in Canine Mesenchymal Stem Cells by Flow Cytometry. Canine mesenchymal stem cells were stained with Goat Anti-Human/Canine Integrin β1/CD29 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1778, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).</p>
<p>Immunocytochemistry</p>  <p>Integrin β1/CD29 in Human Mesenchymal Stem Cells. Integrin β1/CD29 was detected in immersion fixed human mesenchymal stem cells using Goat Anti-Human/Canine Integrin β1/CD29 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1778) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) 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>	<p>Immunocytochemistry</p>  <p>Integrin β1/CD29 in Canine Mesenchymal Stem Cells. Integrin β1/CD29 was detected in immersion fixed canine mesenchymal stem cells using Goat Anti-Human/Canine Integrin β1/CD29 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1778) at 10 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) 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 0.2 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

Integrin β 1, also called CD29 and VLA- β chain, associates with at least ten different integrin α subunits to form various VLA complexes. The β 1 subunit has a broad tissue distribution except erythrocytes. Over aa 21-720, human Integrin β 1 shares 95% aa identity with canine Integrin β 1.