

## DESCRIPTION

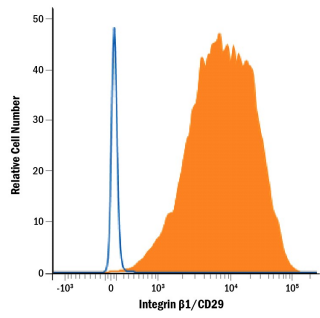
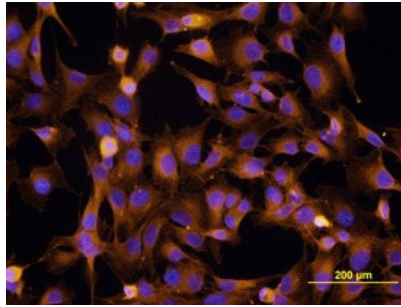
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\beta$ 1/CD29 in direct ELISAs and Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 4B7R
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Ocular melanoma cell line V+B2
<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>	1 $\mu$ g/mL	Recombinant Human Integrin $\beta$ 1/CD29 under non-reducing conditions only
<b>Flow Cytometry</b>	0.25 $\mu$ g/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 $\mu$ g/mL	See Below
<b>Immunohistochemistry</b>	8-25 $\mu$ g/mL	Immersion fixed paraffin-embedded sections of human skin cancer tissue
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Immunoprecipitation</b>	Marshall, J.F. <i>et al.</i> (1998) Br. J. Cancer <b>77</b> :522.	

## DATA

<p><b>Flow Cytometry</b></p>  <p><b>Detection of Integrin <math>\beta</math>1/CD29 in Human PBMCs by Flow Cytometry.</b> Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human Integrin <math>\beta</math>1/CD29 Monoclonal Antibody (Catalog # MAB1778, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).</p>	<p><b>Immunocytochemistry</b></p>  <p><b>Integrin <math>\beta</math>1/CD29 in MG-63 Human Cell Line.</b> Integrin <math>\beta</math>1/CD29 was detected in immersion fixed MG-63 human osteosarcoma cell line using Mouse Anti-Human Integrin <math>\beta</math>1/CD29 Monoclonal Antibody (Catalog # MAB1778) at 10 <math>\mu</math>g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (yellow; Catalog # NL007) and counter-stained with DAPI (blue). View our protocol for <b>Fluorescent ICC Staining of Cells on Coverslips</b>.</p>
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 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  $\beta$ 1 subunit, also known as CD29, associates with at least ten different Integrin  $\alpha$  subunits (1).

### References:

- Wayner, E.A. and W.G. Carter (1987) J. Cell Biol. **105**:1873.