

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Integrin $\beta$ 1/CD29.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # P5D2
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human skin keratinocytes
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	Human peripheral blood mononuclear cells (PBMCs)

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

The Integrin  $\beta$ 1 subunit, also known as CD29, associates with at least ten different Integrin  $\alpha$  subunits. It regulates not only its multiple ligands, but activates a signaling cascade in its expressing cells. CD29 is proposed to play a role in cell adhesion, apoptosis, and differentiation (1,2). Over amino acids (aa) 21-728, human and mouse share 92% aa sequence identity.

#### References:

1. Barkan, D. and A.F. Chambers (2011) Clin. Cancer Res. **17**:7219.
2. Humphries, M.J. (2000) Biochem. Soc. Trans. **28**:311.

#### PRODUCT SPECIFIC NOTICES

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