

Human Integrin β1/CD29 Antibody

Monoclonal Mouse IgG₁ Clone # P4G11 Catalog Number: MAB17782

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human Integrin β1/CD29. Reacts with calcium-dependent epitopes on the human Integrin β1 subunit. This antibody activates Integrin β1-dependent binding to extracellular matrix substrates. The use of binding buffer containing 1 mM Ca ⁺ 2 is recommended.
Source	Monoclonal Mouse IgG ₁ Clone # P4G11
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	U937 human histiocytic lymphoma cell line
Formulation	Lyophilized from a 0.2 µm 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 µm filtered solution in PBS.

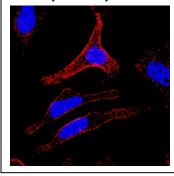
APPLICATIONS

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	
Flow Cytometry	$0.25~\mu g/10^6~cells$	Human peripheral blood mononuclear cells	
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Integrin β1/CD29, see our available Western blot detection antibodies	
CyTOF-ready	Ready to be labeled with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere	
Adhesion Activation	This antibody was shown to activate Integrin β1-mediated cell adhesion. Wayner, E.A. <i>et al.</i> (1993) J. Cell Biol. 121 :1141. This application was not tested by R&D Systems.		
Immunocytochemistry	Qin, L. et al. (2003)	Biol. Reprod. 69 :563 and Kemp, B. <i>et al.</i> (2002) Histochem. Cell. Biol. 117 :401.	

DATA

Immunocytochemistry



Integrin β 1/CD29 in HeLa Human Cell Line. Integrin β 1/CD29 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human Integrin β 1/CD29 Monoclonal Antibody (Catalog # MAB17782) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights \$^{11}\$ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NIL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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. 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 CD29, associates with multiple distinct Integrin α subunits. The Integrin β 1 subunit has a broad tissue distribution with the exception of erythrocytes.

References:

1. Wayner, E.A. et al. (1993) J. Cell Biol. 121:1141.

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