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30-2168: Anti-CD29 / Integrin beta1 chain Monoclonal Antibody (Clone:MEM-101A)-PE Conjugated

Clonality :	Monoclonal
Clone Name :	MEM-101A
Application :	FACS, IP, WB
Reactivity :	Human, Pig, Dog
Conjugate :	PE
Gene :	ITGB1
Gene ID :	3688
Uniprot ID :	P05556
Alternative Name :	ITGB1,FNRB,MDF2,MSK12
Isotype :	Mouse IgG1
Immunogen Information :	Raji Burkitt's lymphoma cell line

Description

CD29 (beta1 integrin subunit, GPIIa) forms non-covalently linked heterodimers with at least 6 different alpha chains (alpha1-alpha6, CD49a-f) determining the binding properties of beta1 (VLA) integrins. These integrins mediate cell adhesion to collagen, fibronectin, laminin and other extracellular matrix (ECM) components. This interaction hinders cell death, whereas disruption of anchorage to ECM leads to apoptosis. Decreased expression of most beta1 integrins correlates with acquiring multidrug resistance of tumour cells during selection in presence of antitumour drug. In platelets, translocation of intracellular pool of beta1 integrins to the plasma membrane following thrombin stimulation. These integrins are also up-regulated in leukocytes during emigration and extravascular migration and appear to be critically involved in regulating the immune cell trafficking from blood to tissue, as well as in regulating tissue damage and disease symptoms related to inflammatory bowel disease. Through a beta1 integrin-dependent mechanism, fibronectin and type I collagen enhance cytokine secretion of human airway smooth muscle in response to IL-1beta.

Product Info

Amount :	100 tests
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

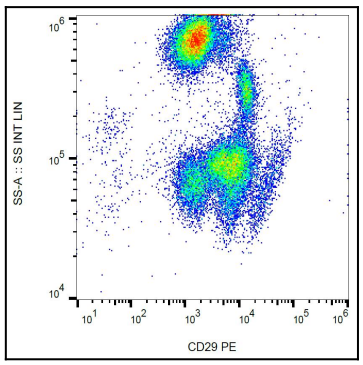


Figure 1: Surface staining of human peripheral blood with anti-human CD29 (MEM-101A) PE.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.