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Product datasheet for SM3016B

Integrin beta 1 (ITGB1) Mouse Monoclonal Antibody [Clone ID: MEM-101A]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-101A
Applications:	FC
Recommended Dilution:	Flow Cytometry (Indirect Immunoflourescence): Use 1/1000 dilution as starting point.
Reactivity:	Canine, Human, Porcine
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Raji Burkitt's lymphoma cell line
Specificity:	The antibody clone <i>MEM-101A</i> reacts with CD29 (integrin b1 chain), a 130 kDa single chain type I glycoprotein expressed as a heterodimer (non-covalently associated with the integrin a subunits 1-6). CD29 is broadly expressed on majority of hematopoietic and non-hematopoietic cells (leukocytes, platelets, fibroblasts, endothelial cells, epithelial cells and mast cells).
Formulation:	Phosphate buffered saline (PBS), pH~7.4 Label: Biotin State: Liquid purified Ig fraction Preservative: 15 mM Sodium Azide Label: Conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Concentration:	lot specific
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 1
Database Link:	<u>Entrez Gene 3688 Human</u> <u>P05556</u>



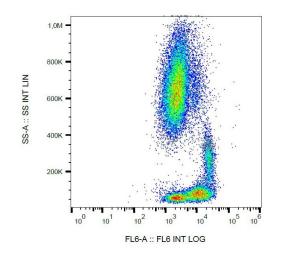
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CRIGENE Integrin beta 1 (ITGB1) Mouse Monoclonal Antibody [Clone ID: MEM-101A] – SM3016B

Background:CD29 (b1 integrin subunit, GPIIa) forms non-covalently linked heterodimers with at least 6
dibberent a chains (a1-a6, CD49a-f) determining the binding properties of b1 (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 b1 integrins correlates
with acquiring multidrug resistance of tumour cells during selection in presence of
antitumour drug. In platelets, translocation of intracellular pool of b1 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 b1
integrin-dependent mechanism, fibronectin and type I collagen enhance cytokine secretion of
human airway smooth muscle in response to IL-1b.

Synonyms: Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta, ITGB1, FNRB, MDF2, MSK12

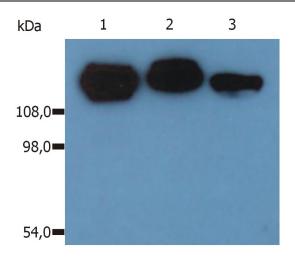
Product images:



Surface staining of human peripheral blood with anti-human CD29 (MEM-101A) APC.

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Western Blotting analysis (non-reducing conditions) of isolated peripheral blood lymphocytes of various species using anti-CD29 (MEM-101A). Lane 1: lysate of human PBL

Lane 2: lysate of canine PBL Lane 3: lysate of porcine PBL

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