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Product datasheet for SM3016P

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-101A
Applications:	FC, IP, WB
Recommended Dilution:	Flow Cytometry: 2 µl. Immunoprecipitation. Western blot: 2 mg/ml. Positive control: JURKAT human leukemia T-cell lysate Kg-1a human leukemia cell lysate Sample preparation: buffer with laurylmaltoside, 2 x non-reducing SDS. Application note: Non-reducing conditions. SDS-PAGE (6% separating gel, 4% stacking gel). Recommended secondary antibody - anti mouse IgG/HRP, dilution 1:2000, 60 min on vertical incubator.
Reactivity:	Human, Porcine, Canine
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	RAJI human Burkitt's lymphoma cell line
Specificity:	This antibody reacts with CD29 (integrin beta1 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) with 15 mM Sodium Azide as preservative, approx. pH 7.4 State: Purified State: Liquid purified IgG fraction (> 95% by SDS-PAGE)
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated



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Storage:	Store 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>
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:



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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