

#### OriGene Technologies, Inc.

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# Product datasheet for SM3016R

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

### **Product data:**

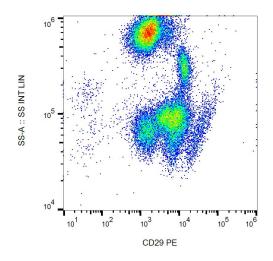
Product Type:	Primary Antibodies
Clone Name:	MEM-101A
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> 20 μl reagent / 100 μl of whole blood or 1 <b>᠖</b> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Reactivity:	Human, Porcine, Canine
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Raji Burkitt's lymphoma cell line
Specificity:	The antibody MEM-101A reacts with CD29 (integrin beta-1 chain), a 130 kDa single chain type I glycoprotein expressed as a heterodimer (non-covalently associated with the integrin alpha 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) solution containing 15mM sodium azide Label: PE State: Liquid purified IgG fraction Label: Conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Purification:	Size-Exclusion Chromatography
Conjugation:	PE
Storage:	Store the antibody in the dark at 2-8°C. <b>Do Not Freeze!</b> Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit beta 1



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	Integrin beta 1 (ITGB1) Mouse Monoclonal Antibody [Clone ID: MEM-101A] – SM3016R
Database Link:	<u>Entrez Gene 3688 Human</u> <u>P05556</u>
Background:	CD29 (beta1 integrin subunit, GPIIa) forms non-covalently linked heterodimers with at least 6 dibberent 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 upregulated 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.
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) PE.

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