

Product datasheet for SM3016F

OriGene Technologies, Inc.

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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 analysis of Human blood cells using 20 μl reagent / 100 μl of whole blood or

106 cells in a suspension.

Reactivity: Canine, Human, Porcine

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Raji Burkitt's lymphoma cell line

Specificity: The antibody clone MEM-101A reacts with CD29, broadly expressed on majority of

hematopoietic and non-hematopoietic cells (leukocytes, platelets, fibroblasts, endothelial

cells, epithelial cells and mast cells).

Formulation: PBS

Label: FITC

State: Liquid purified lg fraction Preservative: 15 mM Sodium Azide

Label: Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The

reagent is free of unconjugated FITC and adjusted for direct use.

Conjugation: FITC

Storage: Store the antibody undiluted in the dark at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Stability: Shelf life: one year from despatch.

Gene Name: integrin subunit beta 1

Database Link: Entrez Gene 3688 Human

P05556





Background:

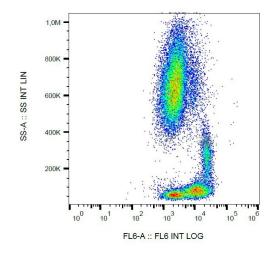
CD29 (b1 integrin subunit, GPIIa) forms non-covalently linked heterodimers with at least 6 dibberent a chains (a1-a6, CD49a-f) determining the binding properties of b1 (VLA) integrins. These integrins mediate cell adhesion to collagen, fibronectin, laminin and other extracellular matrix (ECM) components. 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:

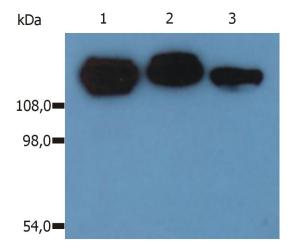
Fibronectin receptor subunit beta, Integrin VLA-4 subunit beta, ITGB1, FNRB, MDF2, MSK12

Product images:



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





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.