

1A-219-T025

Monoclonal Antibody to CD29 Allophycocyanin (APC) conjugated (25 tests)

Clone: MEM-101A Isotype: Mouse IqG1

Specificity: The antibody MEM-101A reacts with CD29 (integrin beta1 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).

HLDA VI; WS Code AS A048

RUO Regulatory Status:

Raji Burkitt's lymphoma cell line Immunogen:

Species Reactivity: Human, Porcine, Canine (Dog)

Negative Species: Mouse

Preparation: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under

optimum conditions. The conjugate is purified by size-exclusion chromatography

and adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not Storage / Stability:

use after expiration date stamped on vial label.

The reagent is designed for Flow Cytometry analysis of human blood cells using 10 μ l reagent / 100 μ l of whole blood or 10⁶ cells in a suspension. Usage:

The content of a vial (0.25 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

Background: 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 DATA SHEET

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