



1A-232-T025

Monoclonal Antibody to CD58 Allophycocyanin (APC) conjugated (25 tests)

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| Clone: | MEM-63 |
| Isotype: | Mouse IgG1 |
| Specificity: | The antibody MEM-63 reacts with CD58 (LFA-3), a 40-70 kDa glycoprotein distributed over many tissues, leukocytes, erythrocytes, endothelial cells, epithelial cells and fibroblasts. HLDA VI; WS Code AS A047 |
| Regulatory Status: | RUO |
| Immunogen: | NALM-6 human pre-B cell line |
| Species Reactivity: | Human, Porcine |
| 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 Tris buffered saline (TBS) solution containing 15 mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD58 (LFA-3) is an immunoglobulin family adhesion molecule expressed by both hematopoietic and non-hematopoietic cells (often on antigen presenting cells) and serving as ligand of CD2. This interaction is important for T cell-mediated immunity. CD58 is expressed in transmembrane form and in GPI-anchored form; the later is constitutively associated with protein kinases whereas the transmembrane form activates kinase activity upon triggering. CD58 is a powerful tool for detection of minimal residual disease in acute lymphocytic leukemia, and for evaluation of liver damage related with hepatitis B. |
| References: | *Bayas MV, Schulten K, Leckband D: Forced detachment of the CD2-CD58 complex. <i>Biophys J.</i> 2003 Apr;84(4):2223-33. *Veltroni M, De Zen L, Sanzari MC, Maglia O, Dworzak MN, Ratei R, Biondi A, Basso G, Gaipa G; I-BFM-ALL-FCM-MRD-Study Group: Expression of CD58 in normal, regenerating and leukemic bone marrow B cells: implications for the detection of minimal residual disease in acute lymphocytic leukemia. <i>Haematologica.</i> 2003 Nov;88(11):1245-52. *Ariel O, Kukulansky T, Raz N, Hollander N: Distinct membrane localization and kinase association of the two isoforms of CD58. <i>Cell Signal.</i> 2004 Jun;16(6):667-73. *Sheng L, Li J, Qi BT, Ji YQ, Meng ZJ, Xie M: Investigation on correlation between expression of CD58 molecule and severity of hepatitis B. <i>World J Gastroenterol.</i> 2006 Jul 14;12(26):4237-40. *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997). |

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Antibodies

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