



1P-266-T100

Monoclonal Antibody to CD50 Phycoerythrin (PE) conjugated (100 tests)

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| Clone: | MEM-171 |
| Isotype: | Mouse IgG1 |
| Specificity: | The antibody MEM-171 recognizes an epitope in the D2 domain of CD50 (ICAM-3), a 120-130 kDa type I membrane protein (immunoglobulin supergene family) expressed on leukocytes, endothelial cells and Langerhans cells; it is negative on platelets and erythrocytes. HLDA VI; WS Code BP 614 HLDA VI; WS Code NL N-L022 |
| Regulatory Status: | RUO |
| Immunogen: | Human granulocytes |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with R-Phycoerythrin (PE) 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. |
| 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 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD50 (intracellular adhesion molecule 3, ICAM-3) is a transmembrane glycoprotein expressed by leukocytes, that serves as a counter-receptor for the lymphocyte function-associated antigen (LFA)-1 integrin. Besides functioning as an adhesive molecule that mediates e.g. the contact between T cells and antigen presenting cells, ICAM-3 regulates affinity of LFA-1 for ICAM-1 and induces T cell activation and proliferation. ICAM-3 plays an essential role in the initiation of the immune response both on T cells and antigen presenting cells and interacts also with CD209 (dendritic cell-specific ICAM-3-grabbing nonintegrin, DC-SIGN), a C-type lectin of dendritic cells and macrophages; this process is involved in dialogue between dendritic cells and granulocytes. |

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies**

- References:**
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 - *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
 - *Linnebacher M, Wienck A, Boeck I, Klar E: Identification of an MSI-H tumor-specific cytotoxic T cell epitope generated by the (-1) frame of U79260(FTO). *J Biomed Biotechnol.* 2010;2010:841451.
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 - *Cermák L, Símová S, Pintzas A, Horejsí V, Andera L: Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules. *J Biol Chem.* 2002 Mar 8;277(10):7955-61.

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