



1F-236-T025

Monoclonal Antibody to CD99R Fluorescein (FITC) conjugated (25 tests)

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| Clone: | MEM-131 |
| Isotype: | Mouse IgM |
| Specificity: | The antibody MEM-131 reacts with CD99R, an epitope restricted to a subset of CD99 molecule expressed on myeloid cells, NK cells and T lymphocytes. HLDA V; WS Code AS S020 HLDA V; WS Code T T-E2.02 HLDA V; WS Code T T-017 |
| Regulatory Status: | RUO |
| Immunogen: | HPB-ALL human peripheral blood leukemia T-cell line |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC 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 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD99 (E2, MIC2) is a transmembrane glycoprotein that is involved in regulation of T cell adhesive properties and programmed cell death distinct from typical apoptosis course. CD99 roles are specific to certain stages of T cell differentiation such as corticothymocytes. CD99R isoform expression is restricted in the haematopoietic system to T, NK and myeloid cells. |

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

**Antibodies**

- References:**
- *Gelin C, Aubrit F, Phalipon A, Raynal B, Cole S, Kaczorek M, Bernard A: The E2 antigen, a 32 kd glycoprotein involved in T-cell adhesion processes, is the MIC2 gene product. *EMBO J.* 1989 Nov;8(11):3253-9.
 - *Bernard G, Zoccola D, Deckert M, Breittmayer JP, Aussel C, Bernard A: The E2 molecule (CD99) specifically triggers homotypic aggregation of CD4+ CD8+ thymocytes. *J Immunol.* 1995 Jan 1;154(1):26-32.
 - *Bernard G, Breittmayer JP, de Matteis M, Trampont P, Hofman P, Senik A, Bernard A: Apoptosis of immature thymocytes mediated by E2/CD99. *J Immunol.* 1997 Mar 15;158(6):2543-50.
 - *Bernard G, Raimondi V, Alberti I, Pourtein M, Widjenes J, Ticchioni M, Bernard A: CD99 (E2) up-regulates alpha4beta1-dependent T cell adhesion to inflamed vascular endothelium under flow conditions. *Eur J Immunol.* 2000 Oct;30(10):3061-5.
 - *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).
 - *Cermak L, Simova S, Pintzas A, Horejsi 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.
 - *Olweus J, Lund-Johansen F, Terstappen LW: CD64/Fc gamma RI is a granulo-monocytic lineage marker on CD34+ hematopoietic progenitor cells. *Blood.* 1995 May 1;85(9):2402-13.

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