

1P-236-T025

## Monoclonal Antibody to CD99R Phycoerythrin (PE) conjugated (25 tests)

<b>Clone:</b>	MEM-131
<b>Isotype:</b>	Mouse IgM
<b>Specificity:</b>	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
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	HPB-ALL human peripheral blood leukemia T-cell line
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	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.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide.
<b>Storage / Stability:</b>	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.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
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- \*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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