EXBIO Antibodies

PRODUCT DATA SHEET

1P-236-T100

Monoclonal Antibody to CD99R Phycoerythrin (PE) conjugated (100 tests)

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

Immunogen: HPB-ALL human peripheral blood leukemia T-cell line

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 phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.

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.
Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

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: CD99 (E2, MIC2) is a transmembrane glycoprotein that is involved in regulation of T cell addhesive 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.

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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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