

Monoclonal Antibody to CD99 / MIC2 (CD99R Isoform) - FITC

Alternate names:	12E7, E2 antigen, MIC2X, MIC2Y, Protein MIC2, T-cell surface glycoprotein E2
Catalog No.:	SM3041F
Quantity:	100 Tests
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.
Uniprot ID:	P14209
NCBI:	NP_001116370.1
GeneID:	4267
Host / Isotype:	Mouse / IgM
Clone:	MEM-131
Immunogen:	HPB-ALL human peripheral blood leukemia T-cell line
Format:	State: Liquid purified Ig fraction Buffer System: 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. Label: FITC – Conjugated with Fluorescein isothiocyanate
Applications:	Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with CD99R, an epitope restricted to a subset of CD99 molecule expressed on myeloid cells, NK cells and T lymphocytes. Species: Human. Other species not tested.
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	1. 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. 2. Bernard G, Zoccola D, Deckert M, Breitmayer JP, Aussel C, Bernard A: The E2 molecule (CD99) specifically triggers homotypic aggregation of CD4+ CD8+ thymocytes. J Immunol.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

1995 Jan 1;154(1):26-32.

3. 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.

4. 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.

5. Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

6. 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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com