

CD99R monoclonal antibody, clone MEM-131 (FITC)

Catalog # MAB5019

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD99.
Immunogen	Native purified CD99 from HPB-ALL human peripheral blood leukemia T-cell line.
Host	Mouse
Reactivity	Human
Specificity	This antibody reacts with CD99R, an epitope restricted to a subset of CD99 molecule expressed on myeloid cells, NK cells and T lymphocytes.
Form	Liquid
Conjugation	FITC
Isotype	IgM
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CD99

Entrez GeneID [4267](#)

Gene Name CD99

Gene Alias MIC2, MIC2X, MIC2Y

Gene Description CD99 molecule

Omim ID [313470 450000](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. Cyclophilin A binds to CD99 and may act as a signaling regulator of CD99. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations CD99 antigen|E2 antigen|MIC2 (monoclonal antibody 12E7)|OTTHUMP00000022840|T-cell surface glycoprotein E2|antigen identified by monoclonal 12E7, Y homolog|antigen identified by monoclonal antibodies 12E7, F21 and O13|surface antigen MIC2

Publication Reference

- [Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules.](#)

Cermak L, Simova S, Pintzas A, Horejsi V, Andera L.

The Journal of Biological Chemistry 2001 Dec; 277(10):7955.

Application: Flow Cyt, Human, TF-1 cells

- [CD99 \(E2\) up-regulates alpha4beta1-dependent T cell adhesion to inflamed vascular endothelium under flow conditions.](#)

Bernard G, Raimondi V, Alberti I, Pourtein M, Widjenes J, Ticchioni M, Bernard A.

Journal of Immunology 2000 Oct; 30(10):3061.

Application: Func, Human, T cells

- [Apoptosis of immature thymocytes mediated by E2/CD99.](#)

Bernard G, Breitmayer JP, de Matteis M, Trampont P, Hofman P, Senik A, Bernard A.

Journal of Immunology 1997 Mar; 158(6):2543.

Application: Flow Cyt, Human, Jurkat cells, Thymocytes

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)

Disease

- [Arthritis](#)
- [Genetic Predisposition to Disease](#)