

Datasheet

CD99R monoclonal antibody, clone MEM-131 (FITC)

Catalog Number: MAB5019

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD99.

Clone Name: MEM-131

Immunogen: Native purified CD99 from HPB-ALL human peripheral blood leukemia T-cell line.

Host: Mouse

Reactivity: Human

Applications: Flow Cyt

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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 10⁶ 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.

Entrez GeneID: 4267

Gene Symbol: CD99

Gene Alias: MIC2, MIC2X, MIC2Y

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]

References:

1. 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. J Biol Chem. 2002 Mar 8;277(10):7955-61. Epub 2001 Dec 31.
2. 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. Eur J Immunol. 2000 Oct;30(10):3061-5.
3. Apoptosis of immature thymocytes mediated by E2/CD99. Bernard G, Breitmayer JP, de Matteis M, Tramont P, Hofman P, Senik A, Bernard A. J Immunol. 1997 Mar 15;158(6):2543-50.