CD99 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD99, Monoclonal Antibody
Full Product Name	Anti-Human CD99 Antibody (12E7#), FITC
Product Gene Name	anti-CD99 antibody
Product Synonym Names	MIC2Y; E2 antigen; MIC2X; 12E7; Protein MIC2; CD99 antigen; MIC2; T-cell surface glycoprotein E2; CD99
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	12E7#
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH 7.4, 0.2% BSA, 0.05% Proclin 300.
Concentration	0.5mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months. Protect from light. Do not freeze.
Molecular Weight	18,848 Da
Chromosome Location	Chromosome: Y; NC_000024.9 (2559228..2609350). Location: Xp22.32 and Yp11.3
OMIM	313470
3D Structure	ModBase 3D Structure for P14209
Conjugation	FITC
Product Categories/Family for anti-CD99 antibody	Super-Affinity Antibodies; Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD99 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD99 antibody	MBS1583266 is an antibody targeting CD99. Also known as Anti-Human CD99 Antibody (12E7#), FITC. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD99 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD99. It may not necessarily be applicable to this product.

NCBI GI #	4505183
NCBI GeneID	4267
NCBI Accession #	NP_002405.1
UniProt Primary Accession #	P14209

UniProt Secondary Accession #	O00518; Q6ICV7; A6NIW1
UniProt Related Accession #	P14209
GenBank Nucleotide #	NM_002414.3
NCBI Official Full Name	CD99 antigen isoform a
NCBI Official Synonym Full Names	CD99 molecule
NCBI Official Symbol	CD99
NCBI Official Synonym Symbols	MIC2; HBA71; MIC2X; MIC2Y; MSK5X
UniProt Protein Name	CD99 antigen
UniProt Synonym Protein Names	12E7; E2 antigen; Protein MIC2; T-cell surface glycoprotein E2
Protein Family	CD99 antigen
UniProt Gene Name	CD99
UniProt Synonym Gene Names	MIC2; MIC2X; MIC2Y
UniProt Entry Name	CD99_HUMAN
NCBI Protein Information	CD99 antigen; E2 antigen; surface antigen MIC2; T-cell surface glycoprotein E2; MIC2 (monoclonal antibody 12E7); antigen identified by monoclonal 12E7, Y homolog; antigen identified by monoclonal antibodies 12E7, F21 and O13
NCBI Summary for CD99	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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2013]
UniProt Comments for CD99	CD99: Involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. Plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. Acts at the same site as, but independently of, PECAM1. Involved in T-cell adhesion processes. Belongs to the CD99 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: Xp22.32 and Yp11.3 Cellular Component: focal adhesion; integral to plasma membrane; cytoplasm; plasma membrane Biological Process: cell adhesion
Research Articles on CD99	**1.** We report an unusual pattern of paranuclear dot-like expression of CD99 in 14 cases of Merkel cell carcinoma, two of which did not express CK20.
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