

Mouse anti-Human CD99 / MIC2 Monoclonal Antibody | anti-CD99 antibody

CD99 / MIC2 (Ewings Sarcoma Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13840	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

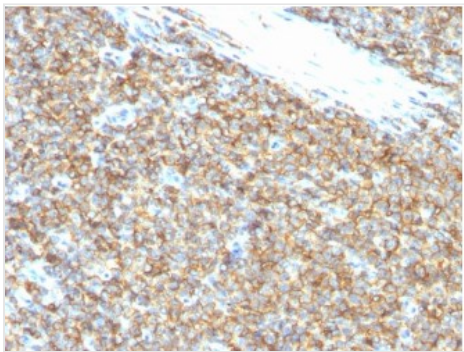
PRODUCT SYNONYMS

CD99 / MIC2; Monoclonal Antibody; CD99 / MIC2 (Ewings Sarcoma Marker) Mouse Monoclonal Antibody; 12E7; E2 antigen; MIC 2X; MIC 2Y; MIC2; Protein MIC2; Surface antigen MIC2; T-cell surface glycoprotein E2; anti-CD99 antibody

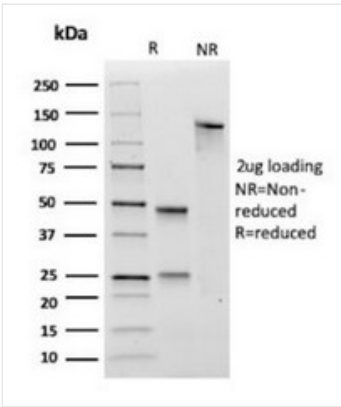
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	12E7
Specificity	Recognizes a sialoglycoprotein of 27-32kDa, identified as CD99, or MIC2 gene product, or E2 antigen. MIC2 gene is located in the pseudo-autosomal region of the human X and Y chromosome. MIC2 gene encodes two distinct proteins, which are produced by alternative splicing of the CD99 gene transcript and are identified as bands of 30 and 32kDa (p30/32). Although its function is not fully understood, CD99 is implicated in various cellular processes including homotypic aggregation of T cells, upregulation of T cell receptor and MHS molecules, apoptosis of immature thymocytes and leukocyte diapedesis. CD99 is expressed on the cell membrane of some lymphocytes, cortical thymocytes, and granulosa cells of the ovary. Most pancreatic islet cells, Sertoli cells of the testis, and some endothelial cells express this antigen. Mature granulocytes express very little or no CD99. MIC2 is strongly expressed on Ewing's sarcoma cells and primitive peripheral neuroectodermal tumors.
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. (Also available WITHOUT BSA & azide at 1.0mg/ml.)
Sequence Length	169
Applicable Applications for anti-CD99 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	FC - 1-2ug/million cells IF - 1-3ug/ml IHC - 1-2ug/ml (NOTE: 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 degree C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined by the end user.
Cellular Localization	Membrane
Immunogen	Human acute lymphocytic leukemia T-cells
Positive Control	MOLT-4 cells. Pancreas or Ewings sarcoma
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
CD99 Antibody in Immunohistochemistry (IHC (P)) -- Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with CD99 Monoclonal Antibody (12E7).



SDS-PAGE
CD99 Antibody in SDS-PAGE -- SDS-PAGE Analysis of Purified CD99 Mouse Monoclonal Antibody (12E7). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Levy R, Dilley J, Fox RI, Warnke R. A human thymus-leukemia antigen defined by hybridoma monoclonal antibodies. PNAS USA 1979;76(12):6552-6
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NCBI AND UNIPROT INFORMATION

NCBI GI #	171543879
NCBI GeneID	4267
NCBI Accession #	NP_001116370.1
NCBI GenBank Nucleotide #	NM_001122898.2
UniProt Accession #	P14209; O00518; Q6ICV7; A6NIW1
Molecular Weight	27-32kDa
NCBI Official Full Name	CD99 antigen isoform b
NCBI Official Synonym Full Names	CD99 molecule
NCBI Official Symbol	CD99
NCBI Official Synonym Symbols	MIC2; HBA71; MIC2X; MIC2Y; MSK5X
NCBI Protein Information	CD99 antigen
UniProt Protein Name	CD99 antigen
UniProt Gene Name	CD99
UniProt Synonym Gene Names	MIC2; MIC2X; MIC2Y
UniProt Entry Name	CD99_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.