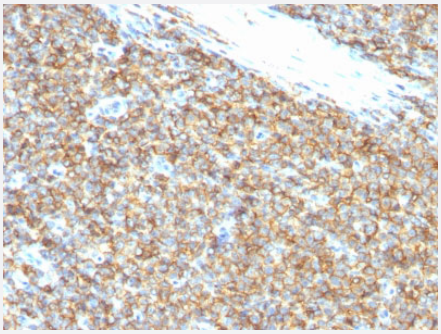
CD99 monoclonal antibody, clone 12E7

Catalog # MAB14199 Size 500 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human Ewing's sarcoma with CD99 monoclonal antibody, clone 12E7 (Cat # MAB14199).

Specification

Product Description	Mouse monoclonal antibody raised against native human CD99.
Immunogen	Human acute lymphocytic leukemia T-cells.
Host	Mouse
Theoretical MW (kDa)	27-32
Reactivity	Human
Form	Liquid
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (5-10 uL/million cells in 0.1 mL) Immunofluorescence (1:50-1:100) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In tissue culture supernatant (0.05% sodium azide).
Storage Instruction	Store at 4°C.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

- Flow Cytometry

Gene Info — CD99

Entrez GeneID	4267
Protein Accession#	P14209
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 casp ase-independent pathway. In addition, the encoded protein may have the ability to rearrange the a ctin 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 r egion 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 surfa ce glycoprotein E2|antigen identified by monoclonal 12E7, Y homolog|antigen identified by monoc lonal antibodies 12E7, F21 and O13|surface antigen MIC2

Pathway

- Cell adhesion molecules (CAMs)
- Leukocyte transendothelial migration

Disease

- Arthritis
- Genetic Predisposition to Disease