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CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - Culture Supernatant

Mouse Monoclonal Antibody [Clone 12E7 + MIC2/877]
Catalog # AH11828

Product Information

Application	IHC, IF, FC
Primary Accession	P14209
Other Accession	4267, 653349
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG's
Clone Names	12E7 + MIC2/877
Calculated MW	18848

Additional Information

Gene ID	4267
Other Names	CD99 antigen, 12E7, E2 antigen, Protein MIC2, T-cell surface glycoprotein E2, CD99, CD99, MIC2, MIC2X, MIC2Y
Application Note	IHC~~1:100~500 IF~~1:50~200 FC~~1:10~50
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - Culture Supernatant is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD99
Synonyms	MIC2, MIC2X, MIC2Y
Function	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 (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein

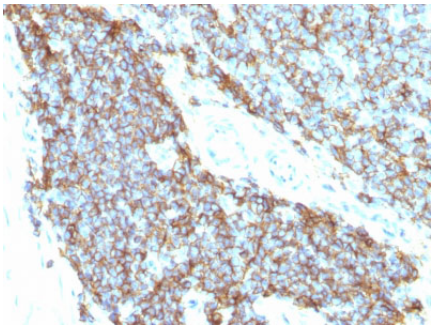
Background

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 Ewingā€™s sarcoma cells and primitive peripheral neuroectodermal tumors.

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-

Images



Formalin-fixed, paraffin-embedded human Ewing's sarcoma stained with CD99 Monoclonal Antibody (12E7+MIC2/877).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.