

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone HO36-1.1]
Catalog # AH11815

Specification

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - Product Information

Application	IHC, IF, FC
Primary Accession	P14209
Other Accession	4267 , 653349
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM, kappa
Calculated MW	27-32kDa KDa

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - 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 - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - 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).

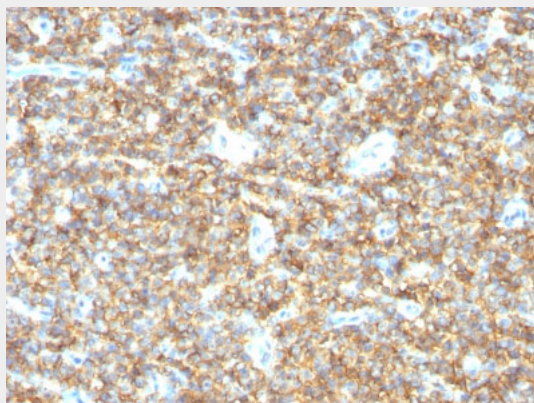
Cellular Location

Membrane; Single-pass type I membrane protein

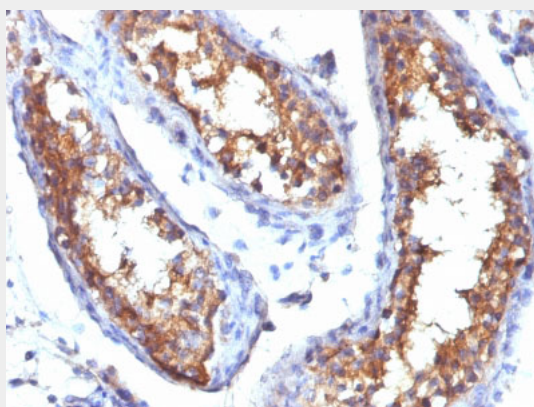
CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - Images

Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with CD99 Monoclonal Antibody (HO36-1.1).



Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with CD99 Monoclonal Antibody (HO36-1.1).

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - 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 Ewing's sarcoma cells and primitive peripheral neuroectodermal tumors. This MAb shows a very similar reactivity to other CD99 MAbs (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - References

Sandrin MS, et. al. Immunogenetics, 1992, 35(4):283-5