

**CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone MIC2/877 ]**  
**Catalog # AH11823**

**Specification**

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

Application	IHC, IF, FC
Primary Accession	<a href="#">P14209</a>
Other Accession	<a href="#">4267</a> , <a href="#">653349</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, 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).

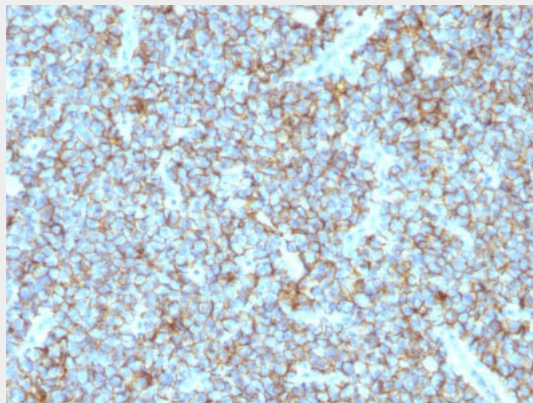
**Cellular Location**

Membrane; Single-pass type I membrane protein

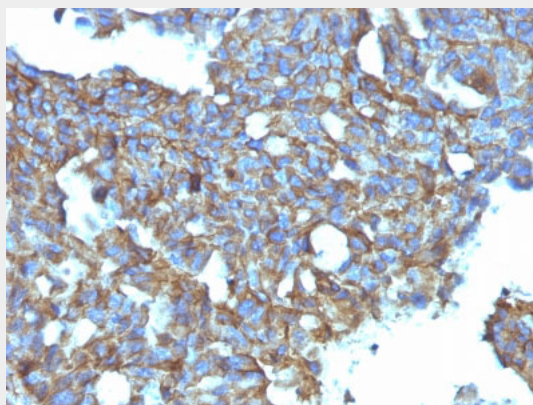
**CD99 / MIC2 (Ewing's Sarcoma Marker) Antibody - With BSA and Azide - Protocols**

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

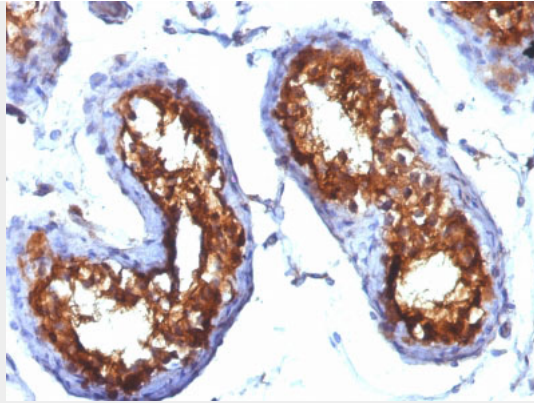
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**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 (MIC2/877).



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma & stained with CD99 Monoclonal Antibody (MIC2/877).



Formalin-fixed, paraffin-embedded human Testicular Carcinoma & stained with CD99 Monoclonal Antibody (MIC2/877).

#### **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.

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

Ambros IM et. al. MIC2 is a specific marker for Ewing's sarcoma and peripheral primitive neuroectodermal tumors. Cancer 1991;67(1):1886-93. |