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

Mouse Monoclonal Antibody [Clone MIC2/877 ]
Catalog # AH11823

## Product Information

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|---|---|
| **Application** | IHC, IF, FC |
| **Primary Accession** | P14209 |
| **Other Accession** | 4267, 653349 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype** | Mouse / IgG1, kappa |
| **Clone Names** | MIC2/877 |
| **Calculated MW** | 18848 |

## Additional Information

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|---|---|
| **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. |

## Protein Information

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|---|---|
| **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 |

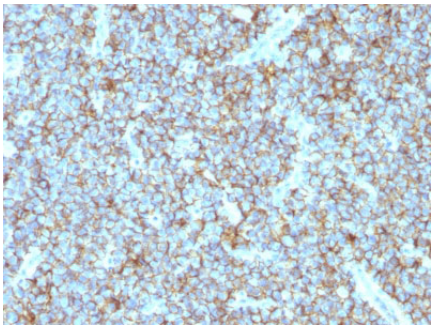
## Background

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 Ewing s sarcoma cells and primitive peripheral neuroectodermal tumors.

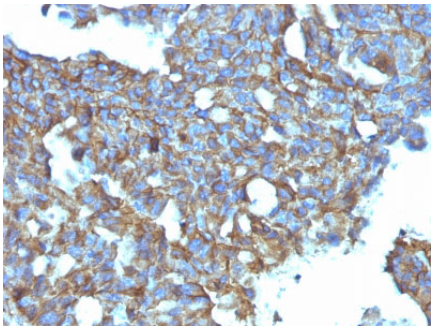
## References

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

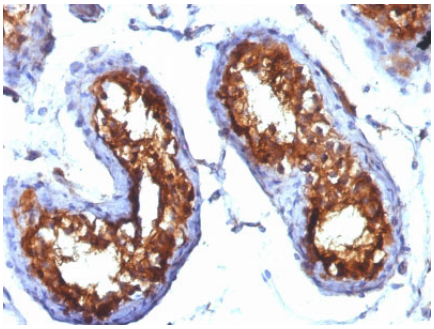
## Images



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).

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