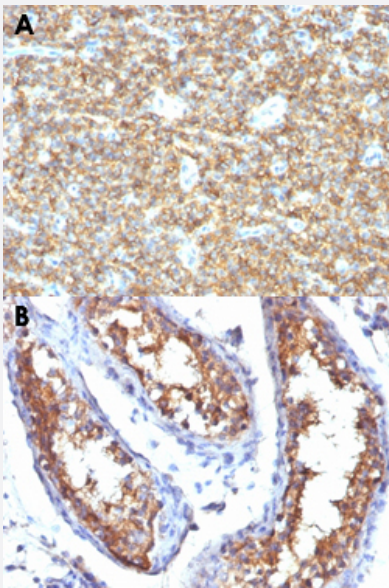


# CD99 monoclonal antibody, clone HO36-1.1

Catalog # MAB13349      Size 100 ug

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human Ewing's sarcoma (A) and human testicular carcinoma (B) with CD99 monoclonal antibody, clone HO36-1.1 (Cat # MAB13349).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against native human CD99.
<b>Immunogen</b>	Purified E-rosette forming cells from human peripheral blood lymphocytes.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	27-32
<b>Reactivity</b>	Human
<b>Specificity</b>	This monoclonal antibody shows a very similar reactivity to other CD99 monoclonal antibodies.
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification

Isotype	IgM, kappa
Recommend Usage	Flow Cytometry (5-10 uL/10 <sup>6</sup> cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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- Immunofluorescence

- Flow Cytometry

## Gene Info — CD99

Entrez GeneID	<a href="#">4267</a>
Protein Accession#	<a href="#">P14209</a>
Gene Name	CD99
Gene Alias	MIC2, MIC2X, MIC2Y
Gene Description	CD99 molecule
Omim ID	<a href="#">313470 450000</a>
Gene Ontology	<a href="#">Hyperlink</a>

**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 caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin 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 region 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 surface glycoprotein E2|antigen identified by monoclonal 12E7, Y homolog|antigen identified by monoclonal antibodies 12E7, F21 and O13|surface antigen MIC2

**Pathway**

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)

**Disease**

- [Arthritis](#)
- [Genetic Predisposition to Disease](#)