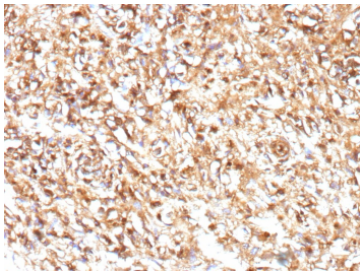
MIC2 Antibody / CD99 [clone MIC2/9939R] (V5946)

Catalog No.	Formulation	Size
V5946-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V5946-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V5946SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

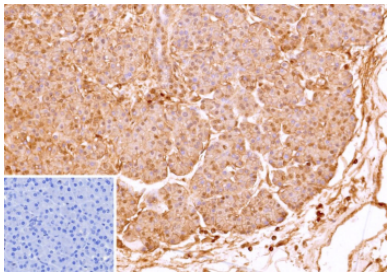
Recombinant RABBIT MONOCLONAL

Bulk quote request

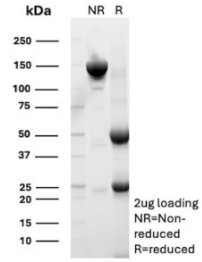
Species Reactivity	Guinea Pig, Hamster, Human, Mouse, Rabbit, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MIC2/9939R
UniProt	P14209
Localization	Membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western Blot: 2-4ug/ml
Limitations	This recombinant MIC2/CD99 antibody is available for research use only.



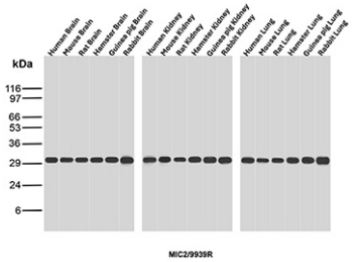
IHC staining of FFPE human Ewing sarcoma tissue with recombinant MIC2/CD99 antibody (clone MIC2/9939R). Tumor cells show strong diffuse membranous staining. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 45 min at 95oC followed by cooling at RT for 20 minutes.



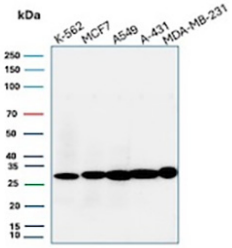
IHC staining of FFPE human pancreas tissue with recombinant MIC2/CD99 antibody (clone MIC2/9939R). Pancreatic epithelial cells demonstrate membranous and cytoplasmic staining. Inset: PBS instead of primary antibody; secondary only negative control. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 45 min at 95oC followed by cooling at RT for 20 minutes.



SDS-PAGE Analysis of purified recombinant MIC2/CD99 antibody (clone MIC2/9939R). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of Human Kidney, Mouse Kidney, Rat Kidney, Human Brain, Mouse Brain, Rat Brain, Human Lung, Mouse Lung, Rat Lung tissue lysates and Jurkat cell lysates using recombinant MIC2/CD99 antibody (MIC2/9939R). Expected molecular weight: 16-32 kDa depending on the level of glycosylation.



Western blot analysis of human K-562, MCF7, A549, A-431 & MDA-MB-231 cell lysates using recombinant MIC2/CD99 antibody (clone MIC2/9939R). Expected molecular weight: 16-32 kDa depending on the level of glycosylation.

Description

MIC2 Antibody recognizes CD99, also known as MIC2, a cell surface glycoprotein encoded by the CD99 gene located in the pseudoautosomal regions of the X and Y chromosomes. CD99 is a type I transmembrane protein characterized by a short cytoplasmic tail and an extracellular domain involved in cell adhesion and signaling. MIC2 Antibody detects a protein that is widely expressed in hematopoietic cells, thymocytes, endothelial cells, and certain epithelial tissues, where it localizes predominantly to the plasma membrane.

CD99 plays important roles in T cell adhesion, leukocyte transendothelial migration, apoptosis regulation, and maintenance of cell-cell interactions. Through homophilic binding, CD99 contributes to intercellular adhesion and influences cytoskeletal organization. It is also implicated in intracellular signaling pathways that modulate cell differentiation and immune responses. Because of these functions, MIC2 Antibody is frequently used in studies of immune cell biology, vascular inflammation, and lymphoid development.

In diagnostic pathology, CD99 is best known for its strong and diffuse membranous expression in Ewing sarcoma and peripheral primitive neuroectodermal tumors. MIC2 Antibody highlights characteristic crisp membranous staining in these tumors, making it a valuable marker in the differential diagnosis of small round blue cell tumors. CD99 expression is also observed in certain lymphoblastic lymphomas, synovial sarcomas, and other neoplasms, though staining patterns and intensity may vary by tumor type.

Beyond oncology, CD99 has been associated with processes such as cell migration, tumor invasion, and modulation of cell death pathways. Altered CD99 expression has been linked to changes in tumor cell behavior, including effects on adhesion and metastatic potential. MIC2 Antibody therefore provides a useful tool for evaluating CD99 expression in both normal tissues and malignancies, supporting research in tumor biology, immunology, and cell signaling. Clone MIC2/9939R is designed to detect CD99 expression in research applications, enabling clear visualization of membranous staining patterns in formalin-fixed, paraffin-embedded tissues and other experimental systems.

By targeting a well-established cell surface marker with recognized diagnostic and biological significance, MIC2 Antibody facilitates detailed assessment of CD99 distribution, cellular localization, and involvement in disease processes.

Application Notes

1. Optimal dilution of the recombinant MIC2/CD99 antibody should be determined by the researcher.

2. This recombinant MIC2/CD99 antibody is recombinantly produced by expression in CHO cells.

Immunogen

A recombinant fragment (around amino acids 1-185) of human MIC2 protein (exact sequence is proprietary) was used as the immunogen for the recombinant MIC2/CD99 antibody.

Storage

MIC2/CD99 molecule antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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