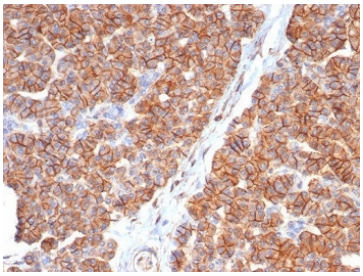
# CD99 Antibody / MIC2 [clone MIC2/7865] (V5347)

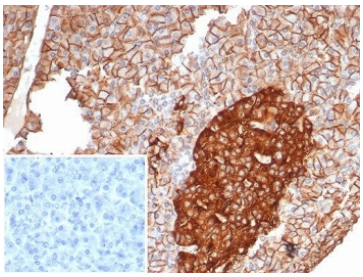
| Catalog No. | Formulation | Size |
|---|---|---|
| V5347-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5347-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V5347SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

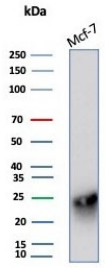
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | MIC2/7865 |
| **Purity** | Protein A affinity |
| **UniProt** | P14209 |
| **Localization** | Cell surface, |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT |
| **Limitations** | This CD99 antibody is available for research use only. |



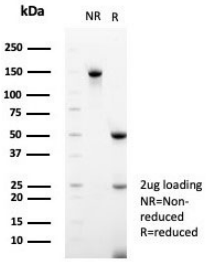
IHC staining of FFPE human pancreas tissue with CD99 antibody (clone MIC2/7865). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human pancreas tissue with CD99 antibody (clone MIC2/7865). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Western blot testing of human MCF-7 cell lysate with CD99 antibody (clone MIC2/7865). Predicted molecular weight: 16-32 kDa depending on the level of glycosylation.




SDS-PAGE analysis of purified, BSA-free CD99 antibody (clone MIC2/7865) as confirmation of integrity and purity.

## Description

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.

## Application Notes

Optimal dilution of the CD99 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 1-185) from the human protein was used as the immunogen for the CD99 antibody.

## Storage

Aliquot the CD99 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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