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36-2768: Anti-CD99 / MIC2 (Ewing's Sarcoma Marker) Monoclonal Antibody(Clone: MIC2/1495R)

Clonality :	Monoclonal
Clone Name :	MIC2/1495R
Application :	IHC
Reactivity :	Human
Gene :	CD99
Gene ID :	4267
Uniprot ID :	P14209
Alternative Name :	12E7; E2 antigen; MIC 2X; MIC 2Y; MIC2; Protein MIC2; Surface antigen MIC2; T-cell surface glycoprotein E2
Isotype :	Rabbit IgG
Immunogen Information :	Recombinant human MIC2 protein

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).AlthoÂµgh 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified by Protein A Column. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (5-10ug/ml for 30 min at Room Temp)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

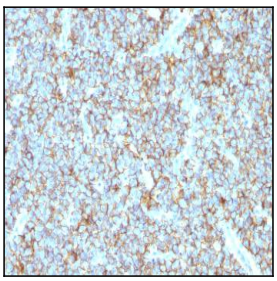


Fig. 1: Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with CD99 Rabbit Recombinant Monoclonal Antibody (MIC2/1495R).

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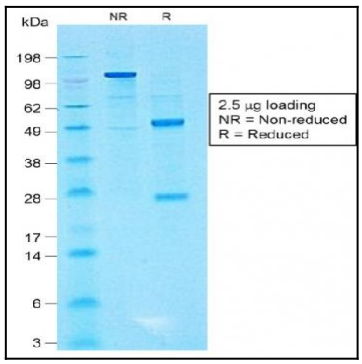


Fig. 2: SDS-PAGE Analysis of Purified CD99 Rabbit Recombinant Monoclonal Antibody (MIC2/1495R). Confirmation of Integrity and Purity of Antibody

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