

Datasheet for ABIN6940040
anti-CD99 antibody



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2 Images

Overview

Quantity:	100 µg
Target:	CD99
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD99 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Purified E-rosette forming cells from human peripheral blood lymphocytes
Clone:	H036-1-1
Isotype:	IgM kappa
Specificity:	Recognizes a sialoglycoprotein of 27-32 kDa, 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 32 kDa (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

Product Details

antigen. Mature granulocytes express very little or no CD99. MIC2 is strongly expressed on Ewing's sarcoma cells and primitive peripheral neuroectodermal tumors. This MAb shows a very similar reactivity to other CD99 MAbs (e.g. O13, 12E7, or HBA-71) and is excellent for immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

Purification: Purified by Protein A/G

Target Details

Target: CD99

Alternative Name: CD99 ([CD99 Products](#))

Target Type: Viral Protein

Molecular Weight: 27-32kDa

Gene ID: 4267

UniProt: [P14209](#)

Application Details

Application Notes: Positive Control: Pancreas or Ewing's sarcoma.

Known Application: Flow Cytometry (5-10 µL/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at Room Temp)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

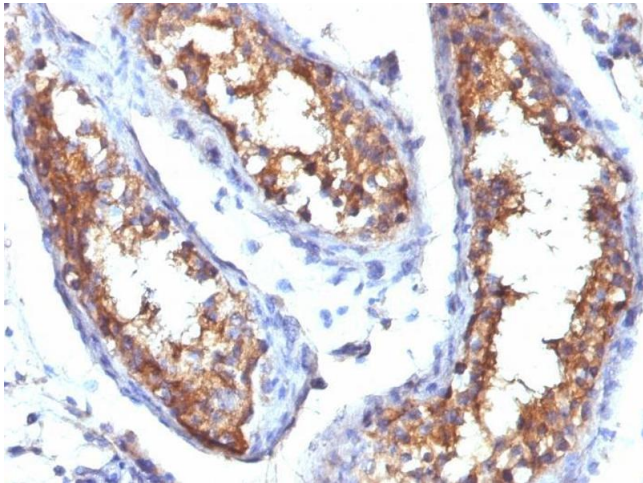
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Handling

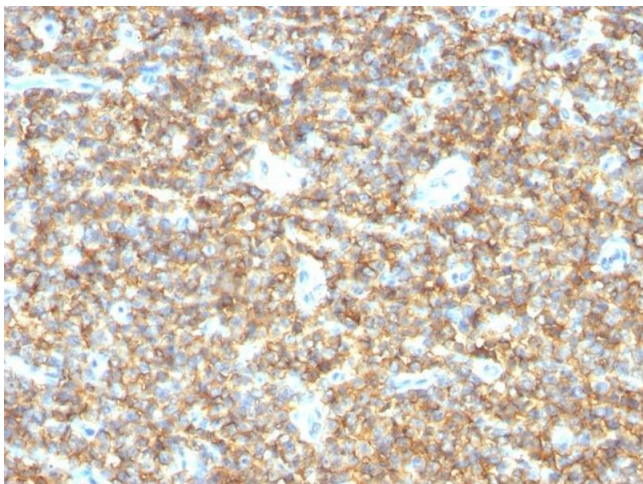
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with CD99 Mouse Monoclonal Antibody (H036-1.1).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Ewing's Sarcoma stained with CD99 Mouse Monoclonal Antibody (H036-1.1).