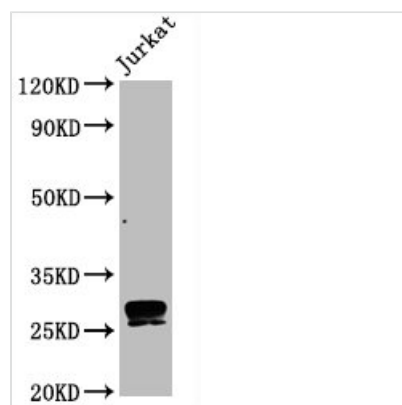




CD99 Antibody

Product Code	CSB-RA004973A0HU
Abbreviation	CD99 antigen
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P14209
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:500
Relevance	Involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. Plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. Acts at the same site as, but independently of, PECAM1. Involved in T-cell adhesion processes (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	CD99 antigen, 12E7, E2 antigen, Protein MIC2, T-cell surface glycoprotein E2, CD99, CD99, MIC2, MIC2X, MIC2Y
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	CD99
Accession NO.	9A5

Image



Western Blot

Positive WB detected in Jurkat whole cell lysate

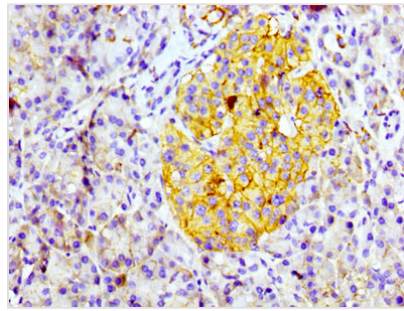
All lanes CD99 antibody at 0.8µg/ml

Secondary

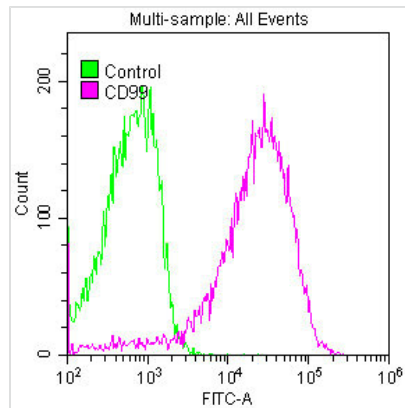
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 28 KDa

Observed band size: 28 KDa



IHC image of CSB-RA004973A0HU diluted at 1:100 and staining in paraffin-embedded human pancreatic tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Overlay histogram showing Jurkat cells stained with CSB-RA004973A0HU (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-rabbit IgG (H+L) at 1/200 dilution for 1 h at 4°C. Control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Description

CD99 antibody CSB-RA004973A0HU is a recombinant monoclonal antibody belonging to rabbit IgG. Its production procedures include: the acquisition of the CD99 monoclonal antibody using the synthesized peptide derived from the human CD99 immunizes animals; the determination of DNA sequence of the CD99 monoclonal antibody; the clone of the DNA sequence into the plasmid and subsequent transfection into cell lines for expression. This CD99 antibody underwent purification using affinity chromatography. It can detect human CD99 in ELISA, WB, IHC, and IP.

CD99, also known as MIC2, is a transmembrane protein that is extensively O-glycosylated and found on leukocytes and active endothelium. CD99 regulates cell adhesion and migration, cell death and differentiation, intracellular protein trafficking, endocytosis, and exocytosis, among other important biological processes. CD99, in particular, functions as an oncosuppressor in tumors or as a prerequisite for cell malignancy. CD99 has been shown to have an impact on tumor cell differentiation, migration, invasion, and metastasis. CD99 is a diagnostic marker for Ewing's Sarcoma (EWS) since these tumors highly express this protein.