

Product datasheet for **AM26145PU-N**

CD99 Mouse Monoclonal Antibody [Clone ID: 3B2/TA8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3B2/TA8
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human thymocytes
Specificity:	This antibody recognizes CD99, an approximately 32 kDa sialoglycoprotein expressed on many cell types, with particularly strong expression on Ewing's sarcoma and peripheral primitive neuroectodermal tumors. Within the hematopoietic system, CD99 is expressed on virtually all cell types except granulocytes.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD99 molecule
Database Link:	Entrez Gene 4267 Human P14209



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Background:

CD99 is a ubiquitous transmembrane type I sialoglycoprotein of a unique and poorly characterized protein family. CD99 is heavily O-glycosylated and was described as a T cell costimulator and strong activator of integrin-mediated actin cytoskeleton assembly, promoting cell adhesion and homotypic aggregation, immediate arrest on an inflamed vascular endothelium, and cell migration through it. Ligation of CD99 under some conditions can lead to apoptosis. Originally CD99 was described as a human thymus leukemia antigen, an Ewing's sarcoma-specific membrane marker, and an adhesion molecule involved in spontaneous rosette formation of T cells with erythrocytes.

Synonyms:

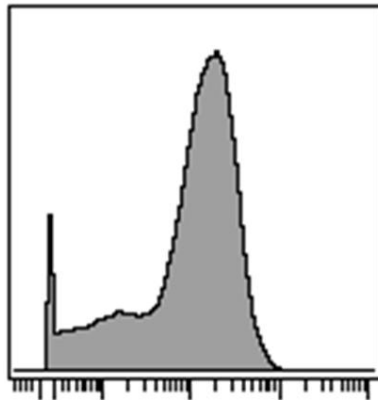
E2 antigen, 12E7, MIC2X, MIC2Y

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

Product images:

CD99 Eu153

Surface staining (mass cytometry) of human peripheral blood cells (after separation using Ficoll-Paque density gradient centrifugation) with anti-human CD99 (3B2/TA8) Eu153. Gated on singlets.