10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD99 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CD99.
Catalog # AT1452a

Product Information

Application	WB, E
Primary Accession	P14209
Other Accession	BC003147
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3A10
Calculated MW	18848

Additional Information

Gene ID	4267
Other Names	CD99 antigen, E2 antigen, Protein MIC2, T-cell surface glycoprotein E2, CD99, CD99, MIC2, MIC2X, MIC2Y
Target/Specificity	CD99 (AAH03147, 23 a.a. ~ 122 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CD99 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

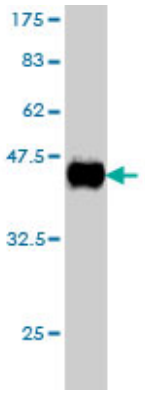
Background

The protein encoded by this gene is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. Cyclophilin A binds to CD99 and may act as a signaling regulator of CD99. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. Two transcript variants encoding different isoforms have been found for this gene.

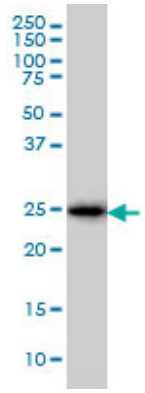
References

Stabilization of an E3 ligase-E2-ubiquitin complex increases cell surface MHC class I expression. Duncan LM, et al. J Immunol, 2010 Jun 15. PMID 20483773.Death induction by CD99 ligation in TEL/AML1-positive acute lymphoblastic leukemia and normal B cell precursors. Husak Z, et al. J Leukoc Biol, 2010 Aug. PMID 20453109.CD99 inhibits neural differentiation of human Ewing sarcoma cells and thereby contributes to oncogenesis. Rocchi A, et al. J Clin Invest, 2010 Mar 1. PMID 20197622.Type B3 thymic epithelial tumor in an adolescent detected by immunohistochemical staining for CD5, CD99, and KIT (CD117): a case report. Yoshino N, et al. Ann Thorac Cardiovasc Surg, 2009 Oct. PMID 19901887.Association of the X-chromosomal genes TIMP1 and IL9R with rheumatoid arthritis. Burkhardt J, et al. J Rheumatol, 2009 Oct. PMID 19723899.

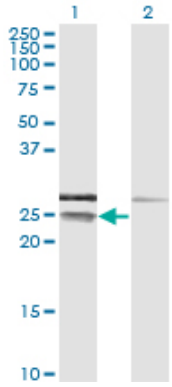
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

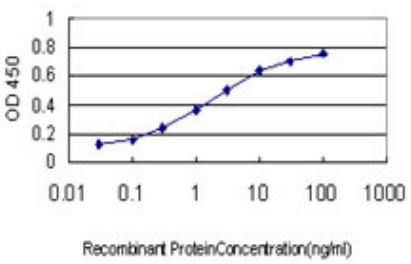


CD99 monoclonal antibody (M01), clone 3A10 Western Blot analysis of CD99 expression in K-562 ((Cat # AT1452a)



Western Blot analysis of CD99 expression in transfected 293T cell line by CD99 monoclonal antibody (M01), clone 3A10.

Lane 1: CD99 transfected lysate(18.8 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CD99 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.