

**CD99 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CD99.****Catalog # AT1452a****Specification**

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**CD99 Antibody (monoclonal) (M01) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P14209</a>
Other Accession	<a href="#">BC003147</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	18848

**CD99 Antibody (monoclonal) (M01) - 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.

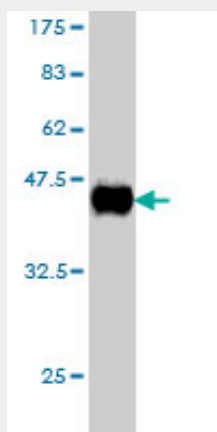
**CD99 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

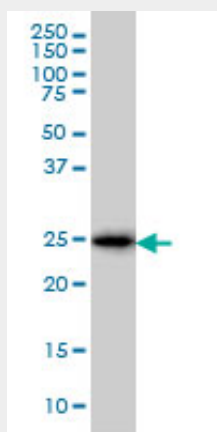
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

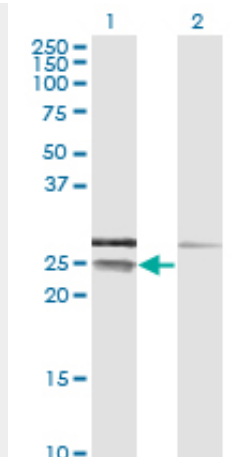
### CD99 Antibody (monoclonal) (M01) - Images



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



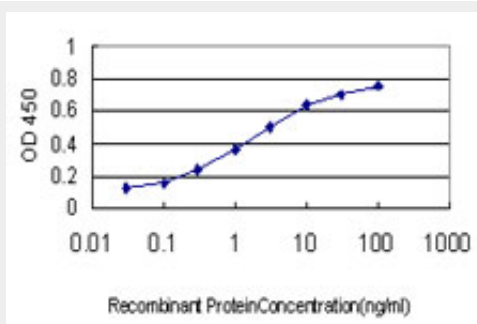
CD99 monoclonal antibody (M01), clone 3A10 Western Blot analysis of CD99 expression in K-562 ( (Cat # AT1452a )



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.

### CD99 Antibody (monoclonal) (M01) - 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.

### CD99 Antibody (monoclonal) (M01) - 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.