

Mouse CD99 Monoclonal Antibody | anti-CD99 antibody

CD99 (Extracellular region) M026 Antibody

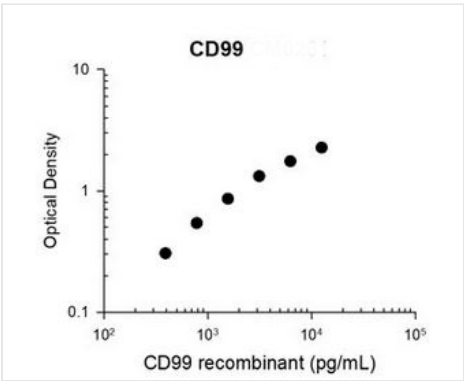
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71581	Mouse	Human, Rat, Mouse	Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

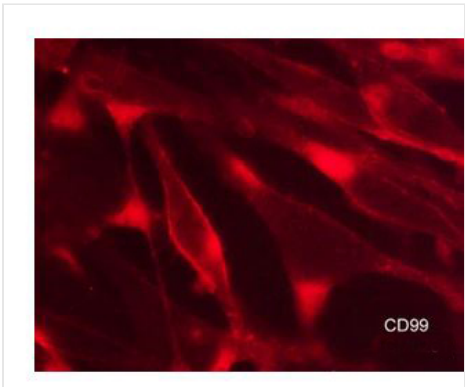
CD99; Monoclonal Antibody; CD99 (Extracellular region) M026 Antibody; CD99 (Extracellular region); CD099 M026; anti-CD99 antibody

PRODUCT SPECIFICATIONS

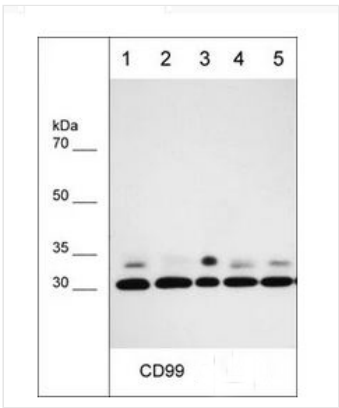
Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M026
Specificity	Clone M026 detects 30 and 32kDa* bands corresponding to the molecular mass of the short and long forms of CD99 on SDS-PAGE immunoblots of human A431, LNCaP, MDA-MB-231, A549, and MeWo cell lysates, as well as mouse LL2 lung carcinoma. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemistry, and immunoprecipitation. In addition, the antibody labels live, unfixed MeWo cells.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CD99 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M026 was generated from a proprietary antigen related to the extracellular region of human CD99 expressed in the MeWo melanoma cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year. The products are safely shipped at ambient temperature for both domestic and international shipments. Each product is guaranteed to match the specifications as indicated on the corresponding technical data sheet. Please store at -20 degree C upon arrival for long term storage.



Standard Curve (Sample)
Representative Standard Curve using mouse monoclonal anti-CD99 (CM0261) for ELISA capture of human recombinant CD99 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.



ICC (Immunocytochemistry)
Immunocytochemical labeling of CD99 in paraformaldehyde fixed human MeWo cells. The cells were labeled with mouse monoclonal anti-CD99 (clone M026). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)
Western blot analysis of human cell lysates: A549 (lane 1), A431 (lane 2), LNCaP (lane 3), MDA-MB-231 (lane 4) and MeWo (lane 5). The blot was probed with mouse monoclonal anti-CD99 (CM0261) at 1:1000.

ADDITIONAL INFORMATION

Related Product Information for anti-CD99 antibody	The glycosylated transmembrane protein CD99 is involved in many essential cellular functions including cell adhesion, migration, cell death, differentiation, and intracellular protein trafficking. The CD99 gene encodes two distinct proteins, type I is 32kDa and type II is 28kDa, which are a result of the alternative splicing of the cytoplasmic region. These CD99 isoforms are expressed in a cell-type-specific manner and may have distinct functions. CD99 is overexpressed in several types of sarcomas, lymphomas, gliomas, neuroendocrine tumors, and some breast cancers. In these tumors, CD99 may have oncogenetic functions that promote migration, invasion, and metastasis of tumor cells. However, other neoplasms, carcinomas, and sarcomas have CD99 expression in benign or early-stage tumors, but lower expression in the advanced-stage counterparts. In these tumors, CD99 may have oncosuppressor signaling, and its re-expression can lead to the reversal of malignancy. Thus, CD99 is an important membrane protein involved in many aspects of cell migration and adhesion in normal and diseased cells.
References	Manara MC, et al. (2018) Genes (Basel). 9(3) pii: E159. Pasello M, et al. (2018) J Cell Commun Signal. 12(1):55.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505183
NCBI GeneID	4267
NCBI Accession #	NP_002405.1

NCBI GenBank Nucleotide #	NM_002414.3
UniProt Accession #	P14209 ; O00518 ; Q6ICV7 ; A6NIW1
Molecular Weight	18,848 Da
NCBI Official Full Name	CD99 antigen isoform a
NCBI Official Synonym Full Names	CD99 molecule
NCBI Official Symbol	CD99
NCBI Official Synonym Symbols	MIC2; HBA71; MIC2X; MIC2Y; MSK5X
NCBI Protein Information	CD99 antigen; E2 antigen; surface antigen MIC2; T-cell surface glycoprotein E2; MIC2 (monoclonal antibody 12E7); antigen identified by monoclonal 12E7, Y homolog; antigen identified by monoclonal antibodies 12E7, F21 and O13
UniProt Protein Name	CD99 antigen
UniProt Gene Name	CD99
UniProt Synonym Gene Names	MIC2; MIC2X; MIC2Y
UniProt Entry Name	CD99_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd99-antibody-clone-m026-immunoprecipitation-immunocytochemistry-western-blot-elisa/71581>