

Mouse anti-Human CD55 Monoclonal Antibody | anti-CD55 antibody

CD55 (Extracellular region) M033 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71583	Mouse	Human	Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

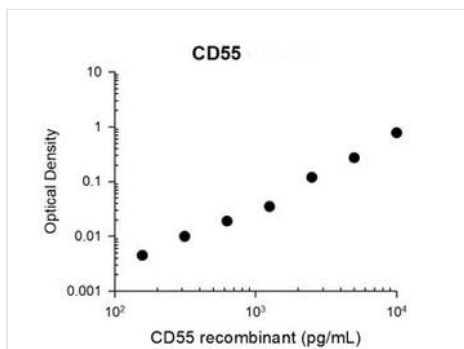
PRODUCT SYNONYMS

CD55; Monoclonal Antibody; CD55 (Extracellular region) M033 Antibody; CD55 (Extracellular region); CD055 M033; anti-CD55 antibody

PRODUCT SPECIFICATIONS

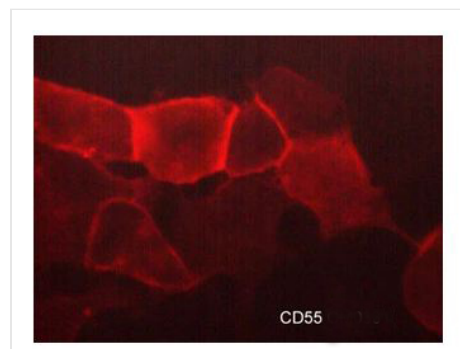
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M033
Specificity	Clone M033 was purified using Protein G chromatography. The antibody detects 75-100kDa* bands corresponding to the molecular mass of CD55 on SDS-PAGE immunoblots of "native" A431, HeLa, MCF7, and MDA-MB-231 cell lysates, but does not detect the denatured form of CD55. The antibody also detects a "native" human recombinant CD55 protein that includes the extracellular region. The antibody can be used for native western blot, immunoprecipitation, protein ELISA, and immunocytochemistry, as well for detecting CD55 in live, unfixed 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-CD55 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M033 was generated from a proprietary antigen related to the extracellular region of human CD55 from the MDA-MB-231 breast cancer cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



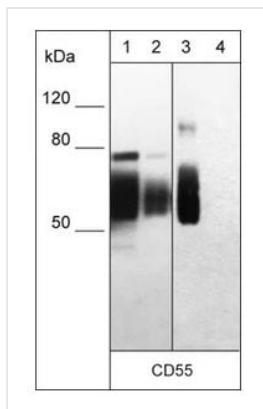
Standard Curve (Sample)

Representative Standard Curve using mouse monoclonal anti-CD55 (CM0331) for ELISA capture of human recombinant CD55 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 CD55 in paraformaldehyde fixed human MDA-MB-231 breast cancer cells. The cells were labeled with mouse monoclonal anti-CD55 (CM0331). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Native western blot analysis of human MDA-MB-231 breast cancer cell lysate (lanes 1 & 2), human recombinant CD55 extracellular region protein (lane 3), and CD44 extracellular region protein (lane 4). The blots were probed with mouse monoclonal anti-CD55 (CM0331) at 1:1000 (lane 1) and 1:4000 (lanes 2, 3, and 4).

ADDITIONAL INFORMATION

Related Product Information for anti-CD55 antibody	CD55, also known as Decay-Accelerating Factor (DAF) is an inhibitor of the complement system, and is broadly expressed in malignant tumors. In cancer, CD55 has been implicated in tumorigenesis, neoangiogenesis, and metastasis. CD55 may decrease complement mediated tumor cell lysis, inhibit tumor apoptosis, and promote invasive cancer cell motility. These roles in cancer may involve binding to the seven-span transmembrane receptor CD97. In neuroblastoma cells, CD55 contributes to growth of colonies and to invasion of cells, but not to stemness. In neuroblastoma cells, CD55 is upregulated in a small population of cells that are HIF-2alpha positive. This CD55-positive subpopulation is highly invasive and has low adhesion to fibronectin and collagen. In addition, CD55 expression correlates with poor prognosis in neuroblastoma patients.
References	Cimmino F et al. (2016) Oncogenesis 5:e212 Mikesch JH et al.(2006) Cell Oncol. 28(5-6):223.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835143
NCBI GeneID	1604
NCBI Accession #	NP_000565.1
NCBI GenBank Nucleotide #	NM_000574.3
UniProt Accession #	P08174; P09679; P78361; B1AP14; D3DT83; D3DT84
Molecular Weight	41,400 Da
NCBI Official Full Name	complement decay-accelerating factor isoform 1 preproprotein
NCBI Official Synonym Full Names	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
NCBI Official Symbol	CD55
NCBI Official Synonym Symbols	CR; TC; DAF; CROM
NCBI Protein Information	complement decay-accelerating factor; CD55 antigen
UniProt Protein Name	Complement decay-accelerating factor
UniProt Gene Name	CD55
UniProt Synonym Gene Names	CR; DAF
UniProt Entry Name	DAF_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/cd55-antibody-clone-m033-immunoprecipitation-immunocytochemistry-western-blot-elisa/71583>