

Mouse anti-Human CD59 Monoclonal Antibody | anti-CD59 antibody

CD59 (glycoprotein) M011 Antibody

CATALOG # AAA71577	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

CD59; Monoclonal Antibody; CD59 (glycoprotein) M011 Antibody; CD59 (glycoprotein); CD059 M011; anti-CD59 antibody

PRODUCT SPECIFICATIONS

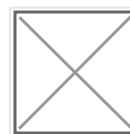
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M011
Specificity	Clone M011 detects 15-20kDa* bands corresponding to CD59 on SDS-PAGE immunoblots of native human MDA-MB-231, A549, A431, and MCF7 cell lysates, as well as recombinant human CD59 protein. The antibody does not detect denatured CD59. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemical labeling and immunoprecipitation. In addition, the antibody labels live, unfixed A549 and 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-CD59 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M011 was generated from a proprietary antigen related to the mature form of human CD59 from the MDA-MB-231 breast carcinoma 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-CD59 (CM0111) for ELISA capture of human recombinant CD59 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 CD59 in paraformaldehyde fixed human A549 cells. The cells were labeled with mouse monoclonal anti-CD59 (clone M011). The antibody was detected using goat anti-mouse Ig DyLight 594.



WB (Western Blot)

Western blot analysis of recombinant human CD59 protein (lanes 1 & 5), A431 (lanes 2 & 6), A549 (lanes 3 & 7), and MCF7 (lanes 4 & 8) whole cell lysates under native conditions. The blots were probed with mouse monoclonal anti-CD59 (CM0111) at 1:1000 (lanes 1-4) and anti-CD59 (CM0151) at 1:1000 (lanes 5-8).

ADDITIONAL INFORMATION

Related Product Information for anti-CD59 antibody	CD59 is a GPI-anchored membrane protein that is an inhibitor of the complement membrane attack complex (MAC). CD59 binds to complement components C8 and C9, preventing C9 polymerization and insertion into membranes. Rare cases of CD59 deficiency have been reported to cause paroxysmal nocturnal hemoglobinuria in human patients. Expression of CD59 on tumor cells and viral infected cells makes them resist antibody-dependent complement-mediated lysis. Inhibitors of CD59 expression or activity may suppress tumor cell resistance to complement-mediated attack, and these technologies have been actively pursued for therapeutic applications. In addition, CD59 may regulate insulin secretion by modulating exocytosis, and a glycosylated form of CD59 with no MAC inhibitory activity is found in diabetic patients.
References	Mevorach, D (2015) Mol Immunol. 67:51. Ghosh P et al. (2015) Endocr Rev. 36(3):272. Sugita, Y & Masuho, Y (1995) Immunotechnology 1:157.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42716299
NCBI GeneID	966
NCBI Accession #	NP_976076.1
NCBI GenBank Nucleotide #	NM_203331.2
UniProt Accession #	P13987
Molecular Weight	14,177 Da
NCBI Official Full Name	CD59 glycoprotein preproprotein
NCBI Official Synonym Full Names	CD59 molecule, complement regulatory protein
NCBI Official Symbol	CD59
NCBI Official Synonym Symbols	1F5; EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3; M1RL; HRF20; MAC1F; MEM43; MIC11; MSK21; 16.3A5; HRF-20; MAC-IP; p18-20
NCBI Protein Information	CD59 glycoprotein; protectin; 1F5 antigen; MEM43 antigen; Ly-6-like protein; T cell-activating protein; human leukocyte antigen MIC11; lymphocytic antigen CD59/MEM43; 20 kDa homologous restriction factor; membrane inhibitor of reactive lysis; membrane att
UniProt Protein Name	CD59 glycoprotein
UniProt Gene Name	CD59
UniProt Synonym Gene Names	MIC11; MIN1; MIN2; MIN3; MSK21; HRF-20; HRF20; MAC-IP; MAC1F; M1RL
UniProt Entry Name	CD59_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.