

Rabbit CD59/Complement Regulatory Protein/Protectin Monoclonal Antibody | anti-CD59 antibody

CD59/Complement Regulatory Protein/Protectin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214854	Rabbit	Human.Does not react with baboon, horse. Others not tested.	Immunofluorescence, Flow Cytometry, Functional Assay, Functional Assay

PRODUCT SYNONYMS

CD59/Complement Regulatory Protein/Protectin; Monoclonal Antibody; 20kDa homologous restriction factor (HRF20); Complement regulatory protein; Human leukocyte antigen MIC11; MAC-inhibitory protein (MACIP); Membrane attack complex inhibition factor (MACIF); Membrane inhibitor of reactive lysis; MIRL; MSK21; Protectin; T cell activating protein; anti-CD59 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human. Does not react with baboon, horse. Others not tested.
Clonality	Monoclonal
Isotype	IgG
Clone Number	MACIF/2867R
Specificity	Reacts with human CD59, a 20kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein (Workshop VI; Code N-L036). CD59 regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. CD59 is widely distributed on cells in all tissues. It inhibits formation of MAC, thus protecting cells from complement-mediated lysis. The expression of CD59 on erythrocytes is important for their survival. Genetic defects in GPI-anchor attachment, that cause a reduction or loss of CD59 and CD55 on erythrocytes produce the symptoms of the disease paroxysmal hemoglobinuria (PNH). This MAb recognizes CD59 transfected cells. It is useful for study on GPI-anchored proteins, PNH and CD59 functions.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	128
Applicable Applications for anti-CD59 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry), FA (Functional Assay)
Immunogen	Recombinant full-length human CD59 protein
Positive Control	Daudi, CEM, K562, HPB.ALL, Jurkat, Raji, and human lymphocytes. Human lymph node and tonsil.
Cellular Localization	Cell Surface
Chromosome Location	11p13
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified CD59 Rabbit Recombinant Monoclonal Antibody (MACIF/2867R). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD59 Rabbit Recombinant Monoclonal Antibody (MACIF/2867R).

ADDITIONAL INFORMATION

Related Product Information for anti-CD59 antibody	Recombinant Rabbit Monoclonal Antibody
References	A E Fritzinger, F. Marciano-Cabral, et al. (2006) Infection and Immunity 74(2):1189-1195.; J Zhang, C Gerhardinger, M Lorenzi (2002) Diabetes 51(12): 3499-3504

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835165
NCBI GeneID	966
NCBI Accession #	NP_000602.1
NCBI GenBank Nucleotide #	NM_000611.5
UniProt Accession #	P13987
Molecular Weight	20kDa
NCBI Official Full Name	CD59 glycoprotein preproprotein
NCBI Official Synonym Full Names	CD59 molecule (CD59 blood group)
NCBI Official Symbol	CD59
NCBI Official Synonym Symbols	1F5; EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3; M1RL; HRF20; MACIF; MEM43; MIC11; MSK21; 16.3A5; HRF-20; MAC-IP; p18-20
NCBI Protein Information	CD59 glycoprotein
UniProt Protein Name	CD59 glycoprotein
UniProt Gene Name	CD59
UniProt Synonym Gene Names	MIC11; MIN1; MIN2; MIN3; MSK21; HRF-20; HRF20; MAC-IP; MACIF; M1RL

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/cd59-complement-regulatory-protein-protectin-antibody-clone-macif-2867r-immunofluorescence-flow-cytometry-functional-assay-elisa/214854>