

Rabbit anti-Human CD59 Polyclonal Antibody | anti-CD59 antibody

CD59 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326323	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

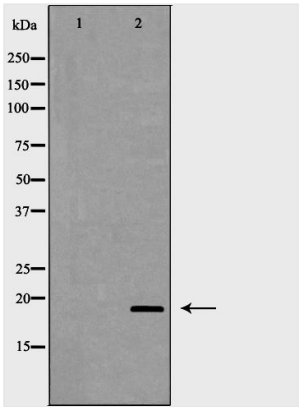
PRODUCT SYNONYMS

CD59; Polyclonal Antibody; CD59 Antibody; 16.3A5; 1F5; 1F5 antigen; 20 kDa homologous restriction factor; CD 59; CD_antigen=CD59; CD59 antigen; CD59 antigen complement regulatory protein; CD59 antigen p18 20; CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5; EJ16; EJ30; EL32 and G344); CD59 glycoprotein; CD59 molecule; CD59 molecule complement regulatory protein; CD59_HUMAN; Cd59a; Complement regulatory protein; EL32; FLJ38134; FLJ92039; G344; HRF 20; HRF-20; HRF20; Human leukocyte antigen MIC11; Ly 6 like protein; Lymphocytic antigen CD59/MEM43; MAC inhibitory protein; MAC IP; MAC-inhibitory protein; MAC-IP; MACIF; MACIP; MEM43; MEM43 antigen; Membrane attack complex (MAC) inhibition factor; Membrane attack complex inhibition factor; Membrane inhibitor of reactive lysis; MGC2354; MIC11; MIN1; MIN2; MIN3; MIRL; MSK21; p18 20; Protectin; Surface antigen recognized by monoclonal antibody 16.3A5; T cell activating protein; anti-CD59 antibody

PRODUCT SPECIFICATIONS

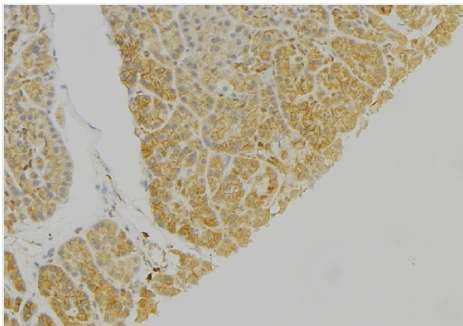
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	CD59 antibody detects endogenous levels of total CD59
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	128
Applicable Applications for anti-CD59 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CD59
Subcellular Location	Cell Membrane. Secreted. Soluble form found in a number of tissues.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts of BXPc-3, using CD59 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326323 at 1/100 staining Human pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CD59 antibody	Description: This gene encodes a cell surface glycoprotein that 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. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008] Function: Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. Subunit Structure: Interacts with T-cell surface antigen CD2. Post-translational Modifications: N- and O-glycosylated. The N-glycosylation mainly consists of a family of biantennary complex-type structures with and without lactosamine extensions and outer arm fucose residues. Also significant amounts of triantennary complexes (22%). Variable sialylation also present in the Asn-43 oligosaccharide. The predominant O-glycans are mono-sialylated forms of the disaccharide, Gal-beta-1, 3GalNAc, and their sites of attachment are probably on Thr-76 and Thr-77. The GPI-anchor of soluble urinary CD59 has no inositol-associated phospholipid, but is composed of seven different GPI-anchor variants of one or more monosaccharide units. Major variants contain sialic acid, mannose and glucosamine. Sialic acid linked to an N-acetylhexosamine-galactose arm is present in two variants. Glycated. Glycation is found in diabetic subjects, but only at minimal levels in nondiabetic subjects. Glycated CD59 lacks MAC-inhibitory function and confers to vascular complications of diabetes.
References	Liu F, Liu J, Yuan Z, Qing Y, Li H, Xu K, Zhu W, Zhao H, Jia B, Pan W, Guo J, Zhang X, Cheng W, Wang W, Zhao HY, Wei HJ; Journal: Mol Biotechnol. Generation of GTKO Diannan Miniature Pig Expressing Human Complementary Regulator Proteins hCD55 and hCD59 via T2A Peptide-Based Bicistronic Vectors and SCNT.

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	Observed: 19 kDa Predicted: 15 kDa

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/polyclonal/cd59-antibody-immunohistochemistry-western-blot-elisa/326323>