

Rabbit CD59 Polyclonal Antibody | anti-CD59 antibody

Anti-CD59 Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124602	Rabbit	Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

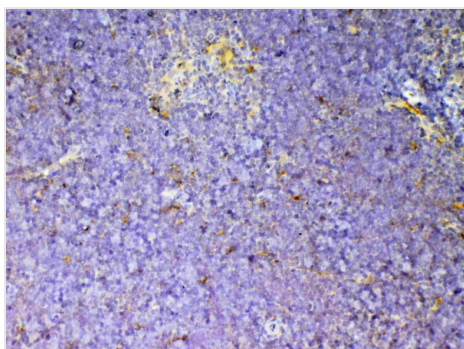
PRODUCT SYNONYMS

CD59; Polyclonal Antibody; Anti-CD59 Picoband antibody; CD59A glycoprotein; MAC-inhibitory protein; MAC-IP; Membrane attack complex inhibition factor; MACIF; Protectin; Cd59a; Cd59; anti-CD59 antibody

PRODUCT SPECIFICATIONS

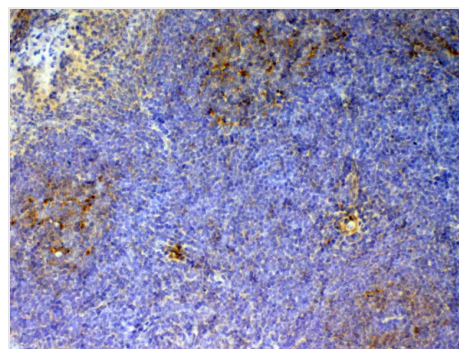
Host	Rabbit
Reactivity	Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	123
Applicable Applications for anti-CD59 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived mouse CD59 recombinant protein (Position: L24-S96).
Subcellular Localization	Cell membrane; Lipid-anchor, GPI-anchor.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



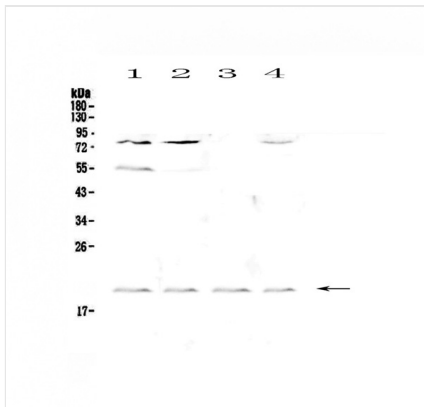
IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD59 using anti-CD59 antibody (AAA124602). CD59 was detected in paraffin-embedded section of mouse thymus tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD59 Antibody (AAA124602) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CD59 using anti-CD59 antibody (AAA124602). CD59 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD59 Antibody (AAA124602) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CD59 using anti-CD59 antibody (AAA124602). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: rat spleen tissue lysates, Lane 4: rat brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD59 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD59 at approximately 20KD. The expected band size for CD59 is at 14KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD59 antibody	Description: CD59 glycoprotein, also known as MAC-inhibitory protein (MAC-IP), membrane inhibitor of reactive lysis (MIRL), or protectin, is a protein that in humans is encoded by the CD59 gene. 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. Protein 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 (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	161484616
NCBI GeneID	12509
NCBI Accession #	NP_001104530.1
NCBI GenBank Nucleotide #	NM_001111060.2
UniProt Accession #	O55186; Q542R7
Molecular Weight	13,648 Da
NCBI Official Full Name	CD59A glycoprotein
NCBI Official Synonym Full Names	CD59a antigen
NCBI Official Symbol	Cd59a
NCBI Official Synonym Symbols	Cd59; AA987121; protectin

NCBI Protein Information	CD59A glycoprotein
UniProt Protein Name	CD59A glycoprotein
UniProt Gene Name	Cd59a
UniProt Synonym Gene Names	Cd59; MAC-IP; MACIF

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-western-blot-immunohistochemistry-elisa/124602>