

## Rabbit anti-Rat CD59 Polyclonal Antibody | anti-CD59 antibody

Anti-CD59 Antibody, Rabbit Polyclonal

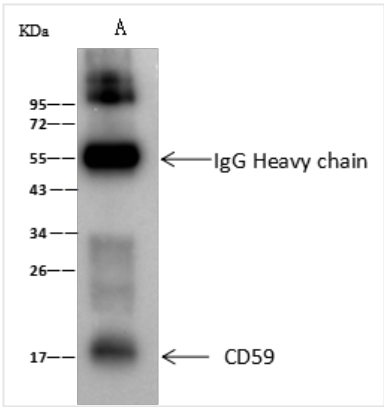
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                             |
|-----------|--------|------------|------------------------------------------|
| AAA257313 | Rabbit | Rat        | Immunoprecipitation, ELISA, Western Blot |

### PRODUCT SYNONYMS

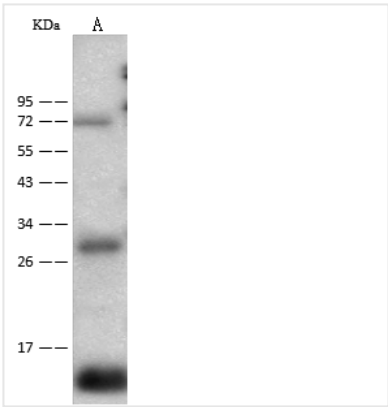
CD59; Polyclonal Antibody; Anti-CD59 Antibody; Rabbit Polyclonal; CD59 Antibody; Rabbit PAb; Antigen Affinity Purified; CD59 molecule; anti-CD59 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                     | Rat                                                                                                                                                                                                                                                                   |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                        | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                    | Rat CD59                                                                                                                                                                                                                                                              |
| Purity/Purification                            | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-CD59 antibody | IP (Immunoprecipitation), ELISA, WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen                                      | Recombinant Rat CD59 Protein                                                                                                                                                                                                                                          |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                    | Produced in rabbits immunized with purified, recombinant Rat CD59 (rR CD59). CD59 specific IgG was purified by Rat CD59 affinity chromatography.                                                                                                                      |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**IP (Immunoprecipitation)**  
ratCD59 was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate 2 uL anti-ratCD59 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-ratCD59 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 14 kDa Observed band size :17 kDa



**WB (Western Blot)**  
Anti-CD59 rabbit polyclonal antibody at 1:500 dilution Lane A: Rat Spleen tissue lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 14 kDa Observed band size: 14 kDa

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD59 antibody | CD59 glycoprotein, also known as 2 kDa homologous restriction factor, HRF2, MAC-inhibitory protein, Membrane attack complex inhibition factor, Membrane inhibitor of reactive lysis, MIC11, MIRL and CD59, is a cell membrane protein which contains one UPAR/Ly6 domain. CD59 is a small, highly glycosylated, GPI-linked protein, with a wide expression profile. The soluble form of CD59 from urine retains its specific complement binding activity, but exhibits greatly reduced ability to inhibit MAC assembly on cell membranes. CD59 is a potent inhibitor of the complement membrane attack complex (MAC) action. CD59 was first identified as a regulator of the terminal pathway of complement. It 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. CD59 is involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. Defects in CD59 are the cause of CD59 deficiency (CD59D). |
| Product Categories/Family for anti-CD59 antibody   | Complement Activation Pathways                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                         | Fletcher CM. et al., 1994, Structure. 2: 185-99. Rudd PM. et al., 1997, J Biol Chem. 272: 7229-44. Kimberley FC. et al., 2007, Mol Immunol. 44 (1-3): 73-81. Gong Y. et al., 2007, Sci China C Life Sci. 50 (6): 773-9. Picariello G. et al., 2008, Proteomics 8: 3833-47. Heibeck TH. et al., 2009, J Proteome Res. 8: 3852-61.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 6978635                                      |
| NCBI GeneID                      | 25407                                        |
| NCBI Accession #                 | NP_037057.1                                  |
| NCBI GenBank Nucleotide #        | NM_012925.1                                  |
| UniProt Accession #              | P27274                                       |
| Molecular Weight                 | 13,790 Da                                    |
| NCBI Official Full Name          | CD59 glycoprotein                            |
| NCBI Official Synonym Full Names | CD59 molecule, complement regulatory protein |
| NCBI Official Symbol             | Cd59                                         |
| NCBI Official Synonym Symbols    | Cd59a; Cd59b; MACIF; MACIP; MAC-IP           |

|                                   |                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Protein Information</b>   | CD59 glycoprotein; CD59 antigen; CD59b molecule, complement regulatory protein; Cb59b molecule; MAC-inhibitory protein; membrane attack complex inhibition factor; protectin |
| <b>UniProt Protein Name</b>       | CD59 glycoprotein                                                                                                                                                            |
| <b>UniProt Gene Name</b>          | <b>Cd59</b>                                                                                                                                                                  |
| <b>UniProt Synonym Gene Names</b> | MAC-IP; MACIF                                                                                                                                                                |
| <b>UniProt Entry Name</b>         | CD59_RAT                                                                                                                                                                     |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/cd59-antibody-immunoprecipitation-western-blot-elisa/257313>