

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone BRA-10G]
Catalog # AH12766**Specification****CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide -**
Product Information

| | |
|-------------------|--|
| Application | IF, FC |
| Primary Accession | P13987 |
| Other Accession | 966 , 278573 , 709466 , 710641 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Isotype | Mouse / IgG1, kappa |
| Calculated MW | 20kDa kDa |

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide -
Additional Information**Gene ID** 966**Other Names**

CD59 glycoprotein, 1F5 antigen, 20 kDa homologous restriction factor, HRF-20, HRF20, MAC-inhibitory protein, MAC-IP, MEM43 antigen, Membrane attack complex inhibition factor, MACIF, Membrane inhibitor of reactive lysis, MIRL, Protectin, CD59, CD59, MIC11, MIN1, MIN2, MIN3, MSK21

Application Note

IF~~1:50~200
FC~~1:10~50

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

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Protein Information**Name** CD59 {ECO:0000303|PubMed:2475570, ECO:0000312|HGNC:HGNC:1689}**Function**

Potent inhibitor of the complement membrane attack complex (MAC) action, which protects human cells from damage during complement activation (PubMed:[11882685](http://www.uniprot.org/citations/11882685), PubMed:[1698710](http://www.uniprot.org/citations/1698710), PubMed:

href="http://www.uniprot.org/citations/2475111" target="_blank">2475111, PubMed:2475570, PubMed:2606909, PubMed:9053451). Acts by binding to the beta-haipins of C8 (C8A and C8B) components of the assembling MAC, forming an intermolecular beta-sheet that prevents incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore (PubMed:11882685, PubMed:1698710, PubMed:36797260).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Localizes to the cell surface (PubMed:36797260). Soluble form found in a number of tissues (PubMed:8670172).

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - Images

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - Background

Reacts with human CD59, a 20kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein. 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 is useful for study on GPI-anchored proteins, PNH and CD59 functions.

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - References

Chorvath et al. Neoplasma 39(6),325-9 (1992) | Leukocyte Typing V (S F Schlossman, et al, eds.) Oxford University Press, Oxford (1995) p. 1476-1477. | M H Holguin, et al, (1996) J Immunol 157: 1659-1668. | 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): 3499-3500