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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	**,3,4,**
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

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.

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

Name CD59

Synonyms MIC11, MIN1, MIN2, MIN3, MSK21

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.

Cellular Location
Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Soluble form found in a number of tissues

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 Cytomety
- 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

Chorv&#65533;th 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): 3499-350