

## CD59 Antibody [clone BRA-10G] (V3021)

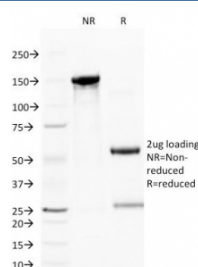
Catalog No.	Formulation	Size
V3021-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3021-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3021SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



Citations (8)

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BRA-10G
Purity	Protein G affinity chromatography
UniProt	P13987
Localization	Plasma membrane, cytoplasm
Applications	Functional Studies (order BSA/sodium Azide-free Format) : Flow Cytometry : 0.5-1ug/10 <sup>6</sup> cells Immunofluorescence : 0.5-1ug/ml
Limitations	This CD59 antibody is available for research use only.



SDS-PAGE Analysis of Purified, BSA-Free CD59 Antibody (clone BRA-10G).  
Confirmation of Integrity and Purity of the Antibody.

## Description

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.

## Application Notes

Optimal dilution of the CD59 antibody should be determined by the researcher.

## Immunogen

Human K562 tumor cells were used as the immunogen for the CD59 antibody.

## Storage

Store the CD59 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).