# CD59 Antibody [clone 193-27] (V3020)

| Catalog No. | Formulation | Size |
|---|---|---|
| V3020-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3020-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3020SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Citations (3)

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgM, kappa |
| **Clone Name** | 193-27 |
| **Purity** | PEG precipitation |
| **UniProt** | P13987 |
| **Localization** | Plasma membrane, cytoplasm |
| **Applications** | Functional studies (order BSA/sodium azide-free format)<br>Flow cytometry: 0.5-1ug/10^6 cells<br>Immunofluorescence: 0.5-1ug/ml |
| **Limitations** | This CD59 antibody is available for research use only. |



## Description

Reacts with human CD59, a 20kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein (Workshop VI; Code N-L036). 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 recognizes CD59 transfected cells. It 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

Stimulated human leukocytes 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).


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