

# CD59 Antibody

Rabbit mAb

Catalog # AP91166

## Product Information

|                          |                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IF, FC, ICC, IP                                                                           |
| <b>Primary Accession</b> | <a href="#">P13987</a>                                                                        |
| <b>Reactivity</b>        | Human                                                                                         |
| <b>Clonality</b>         | Monoclonal                                                                                    |
| <b>Other Names</b>       | CD59 glycoprotein; HRF20; MAC-IP; MEM43 antigen; MACIF; MIRL; Protectin; MIC11; MIN1; p18 20; |
| <b>Isotype</b>           | Rabbit IgG                                                                                    |
| <b>Host</b>              | Rabbit                                                                                        |
| <b>Calculated MW</b>     | 14177                                                                                         |

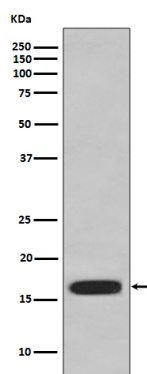
## Additional Information

|                                     |                                                                                                                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dilution</b>                     | WB 1:1000~1:5000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50                                                                                                                                                                                    |
| <b>Purification</b>                 | Affinity-chromatography                                                                                                                                                                                                               |
| <b>Immunogen</b>                    | A synthesized peptide derived from human CD59                                                                                                                                                                                         |
| <b>Description</b>                  | CD59 is a GPI-anchored glycoprotein that is expressed on leukocytes, vascular endothelial cells, various epithelial cells and placenta. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                                     |

## Protein Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | CD59 {ECO:0000303   PubMed:2475570, ECO:0000312   HGNC:HGNC:1689}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Potent inhibitor of the complement membrane attack complex (MAC) action, which protects human cells from damage during complement activation (PubMed: <a href="#">11882685</a> , PubMed: <a href="#">1698710</a> , PubMed: <a href="#">2475111</a> , PubMed: <a href="#">2475570</a> , PubMed: <a href="#">2606909</a> , PubMed: <a href="#">9053451</a> ). 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: <a href="#">11882685</a> , PubMed: <a href="#">1698710</a> , PubMed: <a href="#">36797260</a> ). |
| <b>Cellular Location</b> | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Images



Western blot analysis of CD59 expression in HUVEC cell lysate.

Image not found : 202311/AP91166-IF.jpg

Immunofluorescent analysis of BxPC-3 cells, using CD59 Antibody .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.