

# CD59 (Protectin) Monoclonal Antibody (OV9A2), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OV9A2
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10717399

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	3 Publications

## Product Specific Information

**Description:** This OV9A2 monoclonal antibody reacts with human CD59, which is also known as Protectin. This GPI-linked membrane glycoprotein shares structural homology with the murine Ly-6 superfamily. CD59 is expressed on all human lymphocytes, monocytes, granulocytes, and erythrocytes. This protein is also expressed on non-hematopoietic cells, including endothelial cells and neurons. By binding the complement components C8 and C9, CD59 inhibits assembly of the membrane attack complex and cytolytic activity by complement. CD59 interacts with CD2 to modulate T cell adhesion, and also plays a role in T cell activation. Finally, altered expression of CD55 and CD59 on human peripheral blood cells has been observed in patients with systemic lupus erythematosus (SLE).

Crossblocking studies indicate that the OV9A2 monoclonal antibody binds the same epitope as MEM-43.

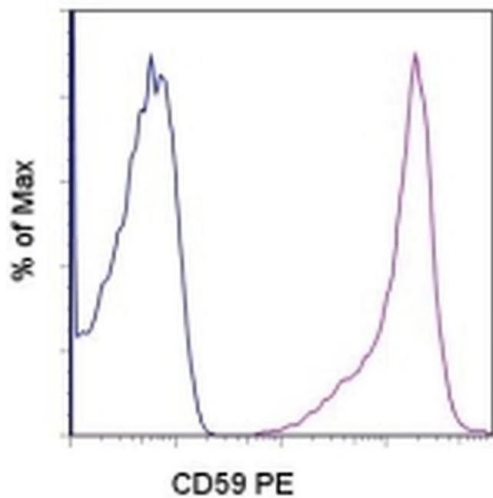
**Applications Reported:** This OV9A2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This OV9A2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

### Product Images For CD59 (Protectin) Monoclonal Antibody (OV9A2), PE, eBioscience™



#### CD59 (Protectin) Antibody (12-0596-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD59 (Protectin) PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

## Immunocytochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)

### IL-27 in human secondary lymphoid organs attracts myeloid dendritic cells and impairs HLA class I-restricted antigen presentation.

"12-0596 was used in Immunofluorescence to suggest that IL-27 may function as a homeostatic cytokine in secondary lymphoid organs by limiting adaptive immune responses."

Authors: Morandi F, Di Carlo E, Ferrone S, Petretto A, Pistoia V, Airolidi I

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

## Flow Cytometry (3)

Immunobiology

### Selectivity of C3-opsonin targeted complement inhibitors: A distinct advantage in the protection of erythrocytes from paroxysmal nocturnal hemoglobinuria patients.

"12-0596 was used in Flow cytometry/Cell sorting to study how miniFH and FH-CR2 interfered only minimally with complement-mediated serum killing of bacteria when compared to untargeted inhibition of all complement pathways by eculizumab."

Authors: Schmidt CQ, Harder MJ, Nichols EM, Hebecker M, Anliker M, Höchsmann B, Simmet T, Csincsi ÁI, Uzonyi B, Pappworth IY, Ricklin D, Lambris JD, Schrezenmeier H, Józsi M, Marchbank KJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

Journal of immunology (Baltimore, Md. : 1950)

### Comparative Analysis of Novel Complement-Targeted Inhibitors, MiniFH, and the Natural Regulators Factor H and Factor H-like Protein 1 Reveal Functional Determinants of Complement Regulation.

"12-0596 was used in Flow cytometry/Cell sorting to identify key determinants of high alternative pathway regulatory activity on host cells."

Authors: Harder MJ, Anliker M, Höchsmann B, Simmet T, Huber-Lang M, Schrezenmeier H, Ricklin D, Lambris JD, Barlow PN, Schmidt CQ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

[View more Flow references on thermofisher.com](#)

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