CD59 (Protectin) Monoclonal Antibody (OV9A2), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OV9A2
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2762518

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 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 (0.25 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 10^5 to 10^8 cells/test.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

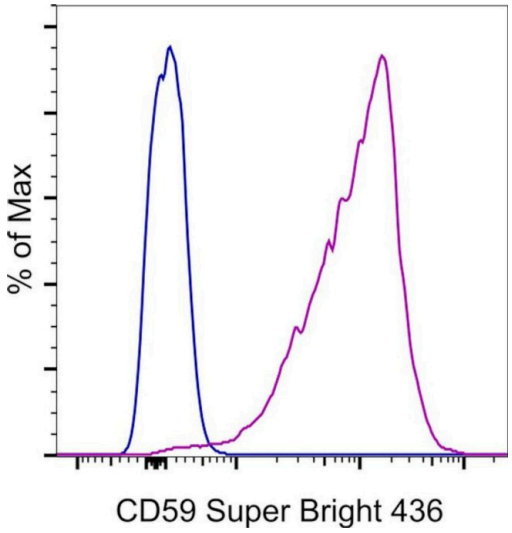
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD59 (Protectin) Monoclonal Antibody (OV9A2), Super Bright™ 436, eBioscience™



CD59 (Protectin) Antibody (62-0596-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (blue histogram) or CD59 Monoclonal Antibody, Super Bright 436 (purple histogram). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

2 References

Flow Cytometry (2)

Frontiers in immunology

Inhibition of complement activation by CD55 overexpression in human induced pluripotent stem cell derived kidney organoids.

"Published figure using CD59 (Protectin) monoclonal antibody (Product # 62-0596-42) in Flow Cytometry"

Authors: Gaykema LH,van Nieuwland RY,Dekkers MC,van Essen MF,Heidt S,Zaldumbide A,van den Berg CW, Rabelink TJ,van Kooten C

Year
2023

Science advances

PBRM1 and the glycosylphosphatidylinositol biosynthetic pathway promote tumor killing mediated by MHC-unrestricted cytotoxic lymphocytes.

"Published figure using CD59 (Protectin) monoclonal antibody (Product # 62-0596-42) in Flow Cytometry"

Authors: Menasche BL,Davis EM,Wang S,Ouyang Y,Li S,Yu H,Shen J

Year
2020