

# CD14 Monoclonal Antibody (Sa2-8), Super Bright™ 436, eBioscience™

| Product Details             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Size                        | 100 µg                                                                   |
| Species Reactivity          | Mouse                                                                    |
| Host/Isotype                | Rat / IgG2a, kappa                                                       |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™ |
| Class                       | Monoclonal                                                               |
| Type                        | Antibody                                                                 |
| Clone                       | Sa2-8                                                                    |
| Conjugate                   | Super Bright™ 436                                                        |
| Excitation/Emission Max     | 413/431 nm                                                               |
| Form                        | Liquid                                                                   |
| Concentration               | 0.2 mg/mL                                                                |
| 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_2762729                                                               |

| Applications                 | Tested Dilution | Publications   |
|------------------------------|-----------------|----------------|
| Immunocytochemistry (ICC/IF) | -               | 1 Publication  |
| Flow Cytometry (Flow)        | 0.5 µg/test     | 5 Publications |

## Product Specific Information

**Description:** The Sa2-8 monoclonal antibody reacts with mouse CD14, a 53-55 kDa GPI-linked glycoprotein. CD14 is a receptor for the complexes of LPS and LBP (LPS-Binding Protein) and is shown to associate with Toll-Like Receptor 4 (TLR4) and participate in the signaling and cellular response to bacterial LPS. In mouse, CD14 is expressed on the surface of macrophages and under certain conditions is also found in the serum in a secreted form. Sa2-8 has weak antagonistic activity (in NF-kappaB activation or TNF alpha production with LPS stimulation).

**Applications Reported:** This Sa2-8 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This Sa2-8 antibody has been tested by flow cytometric analysis of thioglycolate-elicited peritoneal macrophages. This may be used at less than or equal to 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

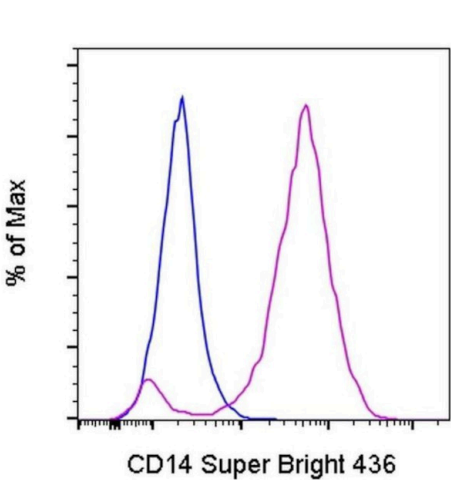
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD14 Monoclonal Antibody (Sa2-8), Super Bright™ 436, eBioscience™



**CD14 Antibody (62-0141-82) in Flow**  
BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stained with 0.25 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321-82) (blue histogram) or 0.25 µg of CD14 Monoclonal Antibody, Super Bright 436 (purple histogram). Total viable cells were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

Immunocytochemistry (1)

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| <p>Journal of cellular physiology</p> <p><b>Identification of a Hematopoietic Cell Dedifferentiation-Inducing Factor.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 62-0141-82) in Immunocytochemistry"</p> <p>Authors: Li Y,Adomat H,Guns ET,Hojabrpour P,Duronio V,Curran TA,Jalili RB,Jia W,Delwar Z,Zhang Y,Elizei SS,Ghahary A</p> | <p>Year</p> <p>2016</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|

Flow Cytometry (5)

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <p>Acta biochimica et biophysica Sinica</p> <p><b>Macrophage polarization is involved in liver fibrosis induced by <math>\alpha_1</math>-adrenoceptor autoantibody.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 62-0141-82) in Flow Cytometry"</p> <p>Authors: Wu Y,Fan X,Yu H,Liu J,Duan Y,Zhang S,Yan L,Du Y,Liu H</p>                              | <p>Year</p> <p>2022</p> |
| <p>Scientific reports</p> <p><b>Early activation of the cardiac CX3CL1/CX3CR1 axis delays -adrenergic-induced heart failure.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 62-0141-82) in Flow Cytometry"</p> <p>Authors: Flamant M,Mougenot N,Balse E,Le Fèvre L,Atassi F,Gautier EL,Le Goff W,Keck M,Nadaud S,Combadière C,Boissonnas A,Pavoine C</p> | <p>Year</p> <p>2021</p> |

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