

CD14 Monoclonal Antibody (Sa2-8), Super Bright™ 645, eBioscience™

| Product Details | |
|-----------------------------|--|
| Size | 25 µg |
| Species Reactivity | Mouse |
| Published Species | Mouse |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 645, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | Sa2-8 |
| Conjugate | Super Bright™ 645 |
| Excitation/Emission Max | 414/645 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_2762788 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|----------------|
| Immunocytochemistry (ICC/IF) | - | 1 Publication |
| Flow Cytometry (Flow) | 0.5 µg/test | 9 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).^{^M}

^{^M}

Applications Reported: This Sa2-8 antibody has been reported for use in flow cytometric analysis.^{^M}

^{^M}

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^{^5} to 10^{^8} cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.^{^M}

^{^M}

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.^{^M}

^{^M}

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.™

™

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.™

™

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.™

™

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser™

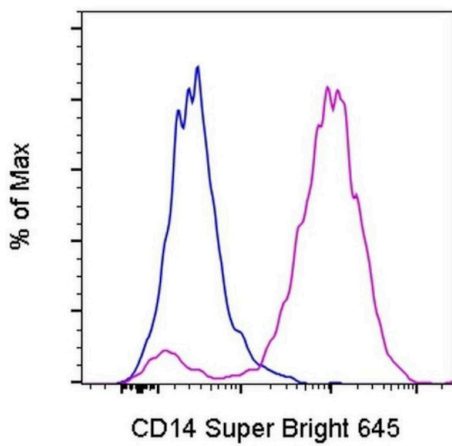
™

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

Product Images For CD14 Monoclonal Antibody (Sa2-8), Super Bright™ 645, eBioscience™

CD14 Antibody (64-0141-80) in Flow

BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stained with 0.25 µg of Rat IgG2a kappa Isotype Control, Super Bright 645 (Product # 64-4321-82) (blue histogram) or 0.25 µg of CD14 Monoclonal Antibody, Super Bright 645 (purple histogram). Total viable cells were used for analysis.



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

10 References

Immunocytochemistry (1)

Journal of cellular physiology

Identification of a Hematopoietic Cell Dedifferentiation-Inducing Factor.

"Published figure using CD14 monoclonal antibody (Product # 64-0141-82) in Immunocytochemistry"

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

Year
2016

Flow Cytometry (9)

Neural regeneration research

Fasudil-modified macrophages reduce inflammation and regulate the immune response in experimental autoimmune encephalomyelitis.

"Published figure using CD14 monoclonal antibody (Product # 64-0141-82) in Flow Cytometry"

Authors: Liu C, Guo S, Liu R, Guo M, Wang Q, Chai Z, Xiao B, Ma C

Year
2024

Stem cell research & therapy

Umbilical cord mesenchymal stem cell-derived apoptotic extracellular vesicles ameliorate cutaneous wound healing in type 2 diabetic mice via macrophage pyroptosis inhibition.

"Published figure using CD14 monoclonal antibody (Product # 64-0141-82) in Flow Cytometry"

Authors: Wang Y, Jing L, Lei X, Ma Z, Li B, Shi Y, Zhang W, Li Y, Zhou H, Hu K, Xue Y, Jin Y

Year
2023

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

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.