CD14 Monoclonal Antibody (Sa2-8), Super Bright™ 645, 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™ 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_2762789

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

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.

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.

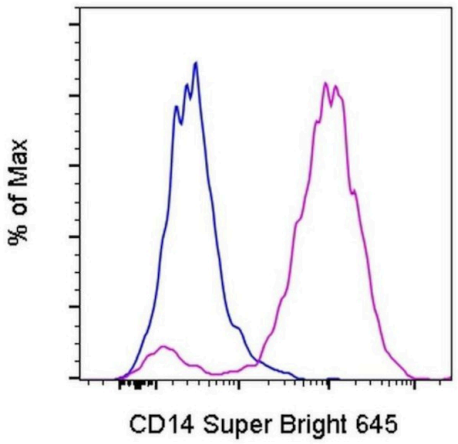
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 (64-0141-82) in Flow
BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stained with 0.25 µg of Rat IgG2a kappa Isotype Control, Super Bright 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

6 References

Immunocytochemistry (1)

Journal of cellular physiology

Year
2016

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

Flow Cytometry (5)

Acta biochimica et biophysica Sinica

Year
2022

Macrophage polarization is involved in liver fibrosis induced by $_{1}$- adrenoceptor autoantibody.

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

Authors: Wu Y,Fan X,Yu H,Liu J,Duan Y,Zhang S,Yan L,Du Y,Liu H

Scientific reports

Year
2021

Early activation of the cardiac CX3CL1/CX3CR1 axis delays -adrenergic-induced heart failure.

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

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

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