CD14 Monoclonal Antibody (Sa2-8), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Sa2-8
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_464949

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	19 Publications
Functional Assay (FN)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Western Blot (WB)	-	1 Publication

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).

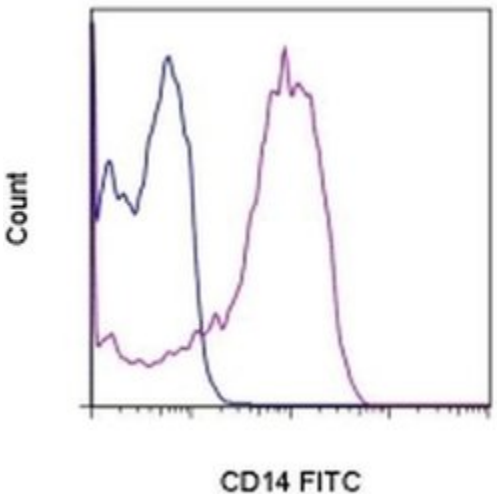
Applications Reported: The Sa2-8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This Sa2-8 antibody has been tested by flow cytometric analysis of thioglycolate-elicited peritoneal exudate cells. This can be used at less than or equal to 1 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD14 Monoclonal Antibody (Sa2-8), FITC, eBioscience™



CD14 Antibody (11-0141-82) in Flow
Staining of mouse thioglycolate-elicited peritoneal exudate cells with 0.5 µg of Rat IgG2a K Isotype Control FITC (Product # 11-4321-42) (blue histogram) or 0.5 µg of Anti-Mouse CD14 FITC (purple histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

23 References

Flow Cytometry (19)

Frontiers in molecular neuroscience

Increased White Matter Inflammation in Aging- and Alzheimer's Disease Brain.

"11-0141 was used in Flow cytometry/Cell sorting to indicate that microglia-induced neuroinflammation is predominant in the white matter of aging mice and humans as well as in EOAD brains."

Authors: Raj D,Yin Z,Breur M,Doorduin J,Holtman IR,Olah M,Mantingh-Otter IJ,Van Dam D,De Deyn PP,den Dunnen W,Eggen BJL,Amor S,Boddeke E

Species
Mouse

Dilution
Not Cited

Year
2019

Oncology letters

Butyrate upregulates the TLR4 expression and the phosphorylation of MAPKs and NK-B in colon cancer cell *in vitro*.

"Published figure using CD14 monoclonal antibody (Product # 11-0141-82) in Flow Cytometry"

Authors: Xiao T,Wu S,Yan C,Zhao C,Jin H,Yan N,Xu J,Wu Y,Li C,Shao Q,Xia S

Species
Not Applicable

Dilution
Not Cited

Year
2018

View more Flow references on thermofisher.com

Immunocytochemistry (1)

Journal of cellular physiology

Identification of a Hematopoietic Cell Dedifferentiation-Inducing Factor.

"11014182 was used in immunocytochemistry to investigate if conditioned medium from proliferating fibroblasts induce a subset of hematopoietic cells to become adherent fibroblast-like cells"

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

Species
Mouse

Dilution
1:50

Year
2016

Functional Assay (1)

Journal of innate immunity

Porphyromonas gingivalis gingipains selectively reduce CD14 expression, leading to macrophage hyporesponsiveness to bacterial infection.

"11-0141 was used in Immunohistochemistry to study how porphyromonas gingivalis gingipains can reduce CD14 expression without affecting expression of the bacterial-sensing TLRs."

Authors: Wilensky A,Tzach-Nahman R,Potempa J,Shapira L,Nussbaum G

Species
Mouse

Dilution
Not Cited

Year
2015

More applications with references on thermofisher.com

IF (1) **WB (1)**