

F4/80 Monoclonal Antibody (BM8), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
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_2723151

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	50 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	4 Publications
Immunocytochemistry (ICC/IF)	-	18 Publications
Flow Cytometry (Flow)	1.0 µg/test	74 Publications

Product Specific Information

Description: The BM8 monoclonal antibody reacts with mouse F4/80 antigen, an approximately 160 kDa surface receptor. It belongs to the EGF-TM7 family of proteins. As such it contains seven EGF-like domains on its extracellular N-terminus, seven transmembrane spanning sequences, and an intracellular C-terminal domain showing homology to other TM7 superfamily members. The F4/80 antigen is expressed by a majority of mature macrophages and is one of the best markers for this population of cells. However, other cell types, such as peritoneal eosinophils, Langerhans cells, and some other dendritic cell subtypes, have been reported to express this antigen as well. Expression of F4/80 commences during early myeloid development in vivo and can be upregulated on BM cells stimulated in vitro with M-CSF. Some populations of macrophages, especially in the lymphoid microenvironment, may be devoid of F4/80.

Applications Reported: This BM8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This BM8 antibody has been tested by flow cytometric analysis of resident peritoneal macrophages. This may be used at less than or equal to 1.0 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

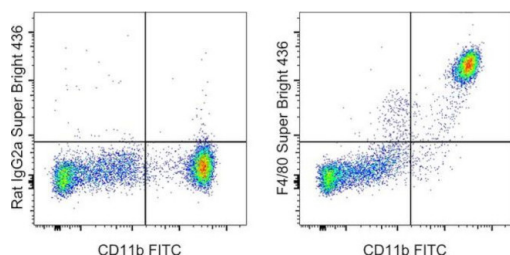
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 F4/80 Monoclonal Antibody (BM8), Super Bright™ 436, eBioscience™



F4/80 Antibody (62-4801-80) in Flow

C57BL/6 mouse resident peritoneal macrophages were stained with CD11b Monoclonal Antibody, FITC (Product # 11-0112-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 0.5 µg of F4/80 Monoclonal Antibody, Super Bright 436 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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

Immunohistochemistry (50)

Cellular & molecular biology letters

Activation of BZW1 by CEBPB in macrophages promotes eIF2 phosphorylation-mediated metabolic reprogramming and endoplasmic reticulum stress in MRL/lpr lupus-prone mice.

"Published figure using F4/80 monoclonal antibody (Product # 62-4801-82) in Immunohistochemistry"

Authors: Qi H,Zheng Z,Liu Q

Year
2023

Nature communications

Streptococcus agalactiae cadD alleviates metal stress and promotes intracellular survival in macrophages and ascending infection during pregnancy.

"Published figure using F4/80 monoclonal antibody (Product # 62-4801-82) in Immunohistochemistry"

Authors: Korir ML,Doster RS,Lu J,Guevara MA,Spicer SK,Moore RE,Francis JD,Rogers LM,Haley KP,Blackman A,Noble KN,Eastman AJ,Williams JA,Damo SM,Boyd KL,Townsend SD,Henrique Serezani C,Aronoff DM,Manning SD,Gaddy JA

Year
2022

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

Immunohistochemistry (Paraffin) (3)

Cell death and differentiation

Kupffer cell receptor CLEC4F is important for the destruction of desialylated platelets in mice.

"Published figure using F4/80 monoclonal antibody (Product # 62-4801-82) in Immunocytochemistry"

Authors: Jiang Y,Tang Y,Hoover C,Kondo Y,Huang D,Restagno D,Shao B,Gao L,Michael McDaniel J,Zhou M,Silasi-Mansat R,McGee S,Jiang M,Bai X,Lupu F,Ruan C,Marth JD,Wu D,Han Y,Xia L

Year
2021

Frontiers in immunology

Murine Fecal Microbiota Transplantation Alleviates Intestinal and Systemic Immune Responses in *Campylobacter jejuni* Infected Mice Harboring a Human Gut Microbiota.

"Published figure using F4/80 monoclonal antibody (Product # 62-4801-82) in Immunohistochemistry"

Authors: Heimesaat MM,Mrazek K,Bereswill S

Year
2020

[View more IHC \(P\) references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (PFA) (1)

IHC (F) (4)

ICC/IF (18)

Flow (74)

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