

F4/80 Monoclonal Antibody (BM8), eFluor 660, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Hamster, Fish, Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	eFluor® 660
Form	Liquid
Concentration	0.2 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_11149361

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1 µg/test	70 Publications
Immunohistochemistry (IHC)	-		55 Publications
Immunofluorescence (IF)	-		48 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-		1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-		3 Publications
Miscellaneous PubMed (MISC)	-		1 Publication

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.

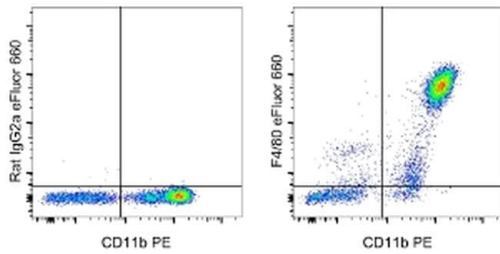
Applications Tested: This BM8 antibody has been tested by flow cytometric analysis of mouse resident peritoneal exudate cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For F4/80 Monoclonal Antibody (BM8), eFluor 660, eBioscience™



F4/80 Antibody (50-4801-82) in Flow

Staining of mouse resident peritoneal exudate cells with Anti-Mouse CD11b PE (Product # 12-0112-82) and 0.5 µg of Rat IgG2a K Isotype Control eFluor® 660 (Product # 50-4321-82) (left) or 0.5 µg of Anti-Mouse F4/80 Antigen eFluor® 660 (right). Cells in the large scatter population were used for analysis.

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

Flow Cytometry (70)

Frontiers in immunology

Quantitative Methods for Measuring Repair Rates and Innate-Immune Cell Responses in Wounded Mouse Skin.

"50-4801 was used in Flow cytometry/Cell sorting to provide methods for measuring wound openness by digital 3D image capture and semi-automated image processing."

Authors: Li Z, Gothard E, Coles MC, Ambler CA

Species
Mouse

Dilution
Not Cited

Year
2019

Frontiers in immunology

p40 -Deficient Mice Exhibit Impaired Bacterial Clearance and Enhanced Pro-inflammatory Responses during *Salmonella enterica* serovar Typhimurium Infection.

"Published figure using F4/80 monoclonal antibody (Product # 50-4801-82) in Flow Cytometry"

Authors: Li Y, Lv M, Su C, Long S, Zhang W, Conway KL, Li W, Xavier RJ, Shi HN

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunohistochemistry (55)

Frontiers in microbiology

Intestinal and Systemic Immune Responses upon Multi-drug Resistant *Pseudomonas aeruginosa* Colonization of Mice Harboring a Human Gut Microbiota.

"Published figure using F4/80 monoclonal antibody (Product # 50-4801-82) in Immunohistochemistry"

Authors: von Klitzing E, Ekmekci I, Bereswill S, Heimesaat MM

Species
Not Applicable

Dilution
Not Cited

Year
2018

Gut pathogens

Toll-like receptor-4 differentially mediates intestinal and extra-intestinal immune responses upon multi-drug resistant *Pseudomonas aeruginosa* association of IL10^{-/-} mice with chronic colitis.

"Published figure using F4/80 monoclonal antibody (Product # 50-4801-82) in Immunohistochemistry"

Authors: Grunau A, Escher U, Kühl AA, Bereswill S, Heimesaat MM

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

More applications with references on thermofisher.com

IF (48) IHC (P) (1) IHC (F) (3) MISC (1)

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