

F4/80 Monoclonal Antibody (BM8), eFluor 506, 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 506, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	eFluor® 506
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_2637190

Applications	Tested	Dilution	Published
Immunohistochemistry (IHC)	-		55 Publications
Flow Cytometry (Flow)	✓	0.125 µg/test	65 Publications
Immunofluorescence (IF)	-		47 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-		1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-		2 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.

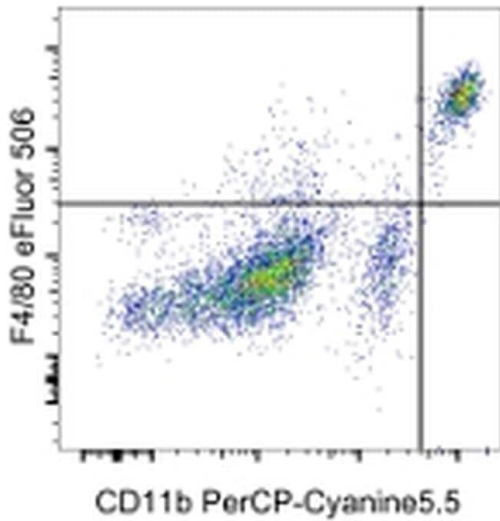
Applications Tested: This BM8 antibody has been tested by flow cytometric analysis of mouse resident peritoneal exudate cells. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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® 506 can be excited with the violet laser line (405 nm) and emits at 506 nm. We recommend using a 510/20 band pass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 506 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For F4/80 Monoclonal Antibody (BM8), eFluor 506, eBioscience™



F4/80 Antibody (69-4801-82) in Flow

Staining of mouse resident peritoneal exudate cells with Anti-Mouse CD11b PerCP-Cyanine5-5 (Product # 45-0112-82) and 0.06 µg of Anti-Mouse F4/80 Antigen eFluor® 506 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.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 # 69-4801-82) 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 # 69-4801-82) 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](#)

Flow Cytometry (65)

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 # 69-4801-82) 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

Frontiers in immunology

Prolonged Deleterious Influences of Chemotherapeutic Agent CPT-11 on Resident Peritoneal Macrophages and B1 Cells.

"Published figure using F4/80 monoclonal antibody (Product # 69-4801-82) in Flow Cytometry"

Authors: Bai WJ, Li CG, Zhang CC, Xu LH, Zeng QZ, Hu B, Hong Z, He XH, Ouyang DY

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

More applications with references on thermofisher.com

IF (47) IHC (P) (1) IHC (F) (2) MISC (1)

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