

# F4/80 Monoclonal Antibody (BM8), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	PE
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_465923

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	217 Publications
Immunofluorescence (IF)	-		3 Publications
Immunohistochemistry (IHC)	-		5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-		3 Publications
Immunocytochemistry (ICC)	-	1:20	2 Publications
Miscellaneous PubMed (MISC)	-		3 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.

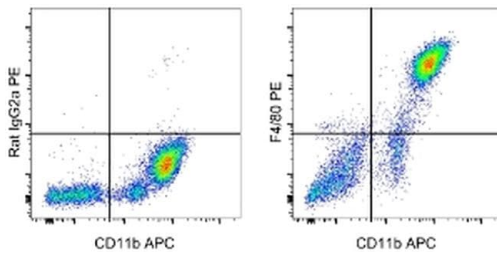
Applications Reported: BM8 has been reported for use in flow cytometric analysis.

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

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For F4/80 Monoclonal Antibody (BM8), PE, eBioscience™



### F4/80 Antibody (12-4801-82) in Flow

Staining of C57Bl/6 resident peritoneal exudate cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and 0.125 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (left) or 0.125 µg of Anti-Mouse F4/80 Antigen PE (right). Cells in the large scatter population were used for analysis.

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

## Flow Cytometry (217)

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 # 12-4801-82) 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 # 12-4801-82) in Flow Cytometry"

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

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2018

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

## Immunofluorescence (3)

Frontiers in immunology

### 1,25-Dihydroxyvitamin D Inhibits LPS-Induced High-Mobility Group Box 1 (HMGB1) Secretion *via* Targeting the NF-E2-Related Factor 2-Hemeoxygenase-1-HMGB1 Pathway in Macrophages.

"12-4801 was used in Western Blotting to report that 1,25(OH)2D3 treatment improves the survival rate in LPS-induced mouse sepsis model by blocking high-mobility group box 1 secretion."

Authors: Rao Z,Zhang N,Xu N,Pan Y,Xiao M,Wu J,Zhou H,Yang S,Chen Y

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2018

Frontiers in cellular and infection microbiology

### Gastric TFF1 Expression from Acute to Chronic *Helicobacter* Infection.

"12-4801 was used in Immunohistochemistry-immunofluorescence to suggest that TFF1 might help cells to counteract bacteria colonization and the development of a chronic inflammation."

Authors: Esposito R,Morello S,Vllahu M,Eletto D,Porta A,Tosco A

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2018

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

## More applications with references on thermofisher.com

IHC (5)

IHC (F) (3)

ICC (2)

MISC (3)

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