

# F4/80 Monoclonal Antibody (BM8), APC, 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), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	APC
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_469452

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	2 µg/test	249 Publications
Immunofluorescence (IF)	-		8 Publications
Immunohistochemistry (IHC)	-		2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1:500	1 Publication
Miscellaneous PubMed (MISC)	-		1 Publication
Immunocytochemistry (ICC)	-		1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-		2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-		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.

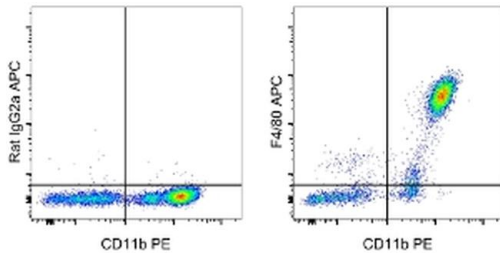
Applications Reported: BM8 has been reported for use in flow cytometric analysis.

Applications Tested: The 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 2  $\mu\text{g}$  per test. A test is defined as the amount ( $\mu\text{g}$ ) of antibody that will stain a cell sample in a final volume of 100  $\mu\text{L}$ . 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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2  $\mu\text{m}$  post-manufacturing filtered.

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



### F4/80 Antibody (17-4801-82) in Flow

Staining of C57Bl/6 resident peritoneal exudate cells with Anti-Mouse CD11b PE (Product # 12-0112-82) and 1  $\mu\text{g}$  of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 1  $\mu\text{g}$  of Anti-Mouse F4/80 Antigen APC (right). Cells in the large scatter population were used for analysis.

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

## Flow Cytometry (249)

Frontiers in immunology

### Growth Hormone (GH) Deficient Mice With GHRH Gene Ablation Are Severely Deficient in Vaccine and Immune Responses Against *Streptococcus pneumoniae*.

Authors: Farhat K, Bodart G, Charlet-Renard C, Desmet CJ, Moutschen M, Beguin Y, Baron F, Melin P, Quatresooz P, Parent AS, Desmecht D, Sirard JC, Salvatori R, Martens H, Geenen VG

**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 # 17-4801-82) 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](#)

## Immunofluorescence (8)

PloS one

### Involvement of TGF-1/Smad3 Signaling in Carbon Tetrachloride-Induced Acute Liver Injury in Mice.

"17-4801 was used in Immunofluorescence to study how the activation of TGF- signaling contributes to the CCl4-induced acute liver injury."

Authors: Niu L, Cui X, Qi Y, Xie D, Wu Q, Chen X, Ge J, Liu Z

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

PloS one

### CoREST1 promotes tumor formation and tumor stroma interactions in a mouse model of breast cancer.

"17-4801 was used in Immunofluorescence to investigate the tumourigenic mechanism of action of the co-repressor CoREST1."

Authors: Mazumdar S, Arendt LM, Phillips S, Sedic M, Kuperwasser C, Gill G

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2016

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

## More applications with references on thermofisher.com

IHC (2)

IHC (PFA) (1)

MISC (1)

ICC (1)

IHC (F) (2)

IHC (P) (1)

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