

F4/80 Monoclonal Antibody (BM8), PerCP-Cyanine5.5, 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), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	PerCP-Cyanine5.5
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_914345

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	100 Publications
Miscellaneous PubMed (MISC)	-		2 Publications
Immunofluorescence (IF)	-		1 Publication
Immunohistochemistry (IHC)	-		1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-		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.

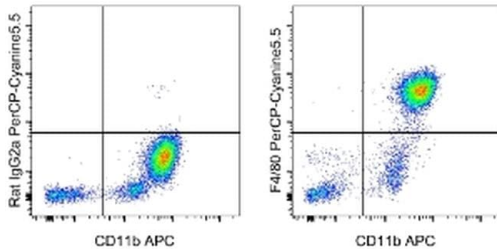
Applications Reported: This BM8 antibody has been reported for use in flow cytometric analysis.

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 0.5 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.

Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For F4/80 Monoclonal Antibody (BM8), PerCP-Cyanine5.5, eBioscience™



F4/80 Antibody (45-4801-82) in Flow

Staining of mouse resident peritoneal exudate cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and 0.25 µg of Rat IgG2a K Isotype Control PerCP-Cyanine5.5 (Product # 45-4321-80) (left) or 0.25 µg of Anti-Mouse F4/80 Antigen PerCP-Cyanine5.5 (Product # 45-4321-80) (right). Cells in the large scatter population were used for analysis.

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

105 References

Flow Cytometry (100)

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 # 45-4801-82) 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 # 45-4801-82) 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](#)

Miscellaneous PubMed (2)

PloS one

Suppression of Protective Responses upon Activation of L-Type Voltage Gated Calcium Channel in Macrophages during Mycobacterium bovis BCG Infection.

"45-4801 was used in Magnetic cell separation to demonstrate a well-orchestrated strategy adopted by mycobacteria to suppress protective responses mounted by the host."

Authors: Sharma D,Tiwari BK,Mehto S,Antony C,Kak G,Singh Y,Natarajan K

Species
Mouse

Dilution
Not Cited

Year
2017

Cell metabolism

A macrophage NBR1-MEKK3 complex triggers JNK-mediated adipose tissue inflammation in obesity.

"Published figure using F4/80 monoclonal antibody (Product # 45-4801-82) in Miscellaneous"

Authors: Hernandez ED, Lee SJ, Kim JY, Duran A, Linares JF, Yajima T, Müller TD, Tschöp MH, Smith SR, Diaz-Meco MT, Moscat J

Species
Not Applicable

Dilution
Not Cited

Year
2014

More applications with references on thermofisher.com

[IF \(1\)](#) [IHC \(1\)](#) [IHC \(F\) \(1\)](#)

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