

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784648

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	2 µg/test	292 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.

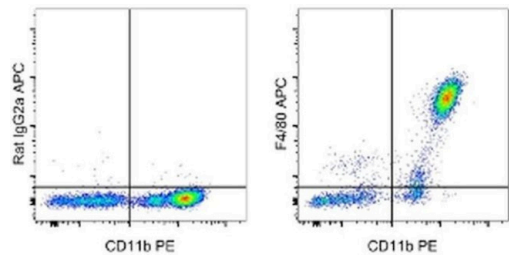
**Applications Tested:** The BM8 antibody has been tested by flow cytometric analysis of mouse resident peritoneal exudate cells. This can be used at less than or equal to 2 µg per test. A test is defined as the amount (µg) of antibody that will stain a

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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm 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 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 1 µg of Anti-Mouse F4/80 Antigen APC (right). Cells in the large scatter population were used for analysis.

Immunohistochemistry (2)

<p>PloS one</p> <p><b>Involvement of TGF-1/Smad3 Signaling in Carbon Tetrachloride-Induced Acute Liver Injury in Mice.</b></p> <p>"17-4801 was used in Immunofluorescence to study how the activation of TGF- signaling contributes to the CCl4-induced acute liver injury."</p> <p>Authors: Niu L,Cui X,Qi Y,Xie D,Wu Q,Chen X,Ge J,Liu Z</p>	<p>Year 2017</p> <p>Species Mouse</p>
<p>Stem cell reports</p> <p><b>CRIPTO/GRP78 signaling maintains fetal and adult mammary stem cells ex vivo.</b></p> <p>"17-4801 was used in Immunofluorescence to identify the CRIPTO/GRP78 pathway as a developmentally conserved regulator of fetal and adult mammary stem cell behavior ex vivo."</p> <p>Authors: Spike BT,Kelber JA,Booker E,Kalathur M,Rodewald R,Lipianskaya J,La J,He M,Wright T,Klemke R,Wahl GM, Gray PC</p>	<p>Year 2014</p> <p>Species Mouse</p> <p>Dilution 1:250</p>

Immunohistochemistry (Paraffin) (2)

<p>Cell death discovery</p> <p><b>Gasdermin D in peripheral nerves: the pyroptotic microenvironment inhibits nerve regeneration.</b></p> <p>"17-4801-82 was used in Immunohistochemistry (Paraffin) to study the involvement of foamy cells in peripheral nerve regeneration in a GSDMD-/- mouse model."</p> <p>Authors: Tao Y,Wang F,Xu Z,Lu X,Yang Y,Wu J,Yao C,Yi F,Li J,Huang Z,Liu Y</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:400</p>
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<p>PloS one</p> <p><b>Interleukin-10 overexpression promotes Fas-ligand-dependent chronic macrophage-mediated demyelinating polyneuropathy.</b></p> <p>"17-4801 was used in Immunohistochemistry on paraffin embedded tissues to investigate the conditions contributing to the development of CIDP and related conditions."</p> <p>Authors: Dace DS,Khan AA,Stark JL,Kelly J,Cross AH,Apte RS</p>	<p>Year 2009</p> <p>Species Mouse</p>
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More applications with references on thermofisher.com

- IHC (PFA) (2)
- IHC (F) (2)
- ICC/IF (5)
- Flow (292)

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