

F4/80 Monoclonal Antibody (BM8), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_2637191

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	172 Publications
Functional Assay (FN)	-	1 Publication
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: BM8 has been reported for use in flow cytometric analysis.

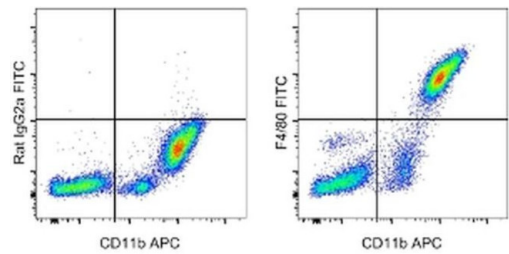
Applications Tested: The BM8 antibody has been tested by flow cytometric analysis of mouse resident peritoneal exudate cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a

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: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



F4/80 Antibody (11-4801-82) 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 FITC (Product # 11-4321-42) (left) or 0.25 µg of Anti-Mouse F4/80 Antigen FITC (right). Cells in the large scatter population were used for analysis.

Immunohistochemistry (5)

<p>Nature communications</p> <p>Macrophages in epididymal adipose tissue secrete osteopontin to regulate bone homeostasis.</p> <p>"11-4801-82 was used in Immunohistochemistry to show that epididymal white adipose tissue-secreted osteopontin induces lipophagocytic mobilization of bone marrow-derived macrophages (BMDMs) to a lipid-rich pool in the bone marrow, promotes bone matrix degradation by activating osteoclasts in high-fat diet-fed mice, and blocks both lipolysis and osteoclastogenesis in BMDMs by limiting the energy regeneration by ATP6V0d2 in lysosomes."</p> <p>Authors: Dai B,Xu J,Li X,Huang L,Hopkins C,Wang H,Yao H,Mi J,Zheng L,Wang J,Tong W,Chow DH,Li Y,He X,Hu P, Chen Z,Zu H,Li Y,Yao Y,Jiang Q,Qin L</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
<p>Veterinary pathology</p> <p>Progressive Degenerative Myopathy and Myosteatorsis in ASNSD1-Deficient Mice.</p> <p>"11-4801-82 was used in Immunohistochemistry to study the function of the asparagine synthetase domain containing 1 (ASNSD1) protein in vivo using Asnsd1-/- mice."</p> <p>Authors: Vogel P,Ding ZM,Read R,DaCosta CM,Hansard M,Small DL,Ye GL,Hansen G,Brommage R,Powell DR</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:500</p>

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Immunohistochemistry (Frozen) (3)

<p>Journal of the American Society of Nephrology : JASN</p> <p>Distinct macrophage phenotypes contribute to kidney injury and repair.</p> <p>"11-4801 was used in Immunofluorescence on frozen tissues to investigate the role of macrophages in ischemic kidney injury, showing that distinct macrophage phenotypes contribute to kidney injury and repair."</p> <p>Authors: Lee S,Huen S,Nishio H,Nishio S,Lee HK,Choi BS,Ruhrberg C,Cantley LG</p>	<p>Year 2011</p> <p>Species Mouse</p>
<p>Journal of virology</p> <p>Role of interferon in homologous and heterologous rotavirus infection in the intestines and extraintestinal organs of suckling mice.</p> <p>"11-4801 was used in Immunohistochemistry to indicate that interferon system inhibition of intestinal and extraintestinal viral replication in suckling mice varies between heterologous and homologous rotavirus strains."</p> <p>Authors: Feng N,Kim B,Fenaux M,Nguyen H,Vo P,Omary MB,Greenberg HB</p>	<p>Year 2008</p> <p>Species Mouse</p>

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- ICC/IF (7)
- Flow (172)
- FN (1)
- Misc (1)

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