

F4/80 Monoclonal Antibody (BM8), Alexa Fluor™ 488, eBioscience™

| Product Details | |
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| Size | 100 µg |
| Species Reactivity | Mouse |
| Published Species | Hamster, Mouse, Human |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 488, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | BM8 |
| Conjugate | Alexa Fluor™ 488 |
| Excitation/Emission Max | 499/520 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_469915 |

| Applications | Tested Dilution | Publications |
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| Immunohistochemistry (IHC) | - | 152 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | - | 4 Publications |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 2 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 5 Publications |
| Immunocytochemistry (ICC/IF) | - | 46 Publications |
| Flow Cytometry (Flow) | 0.5 µg/test | 187 Publications |
| 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.

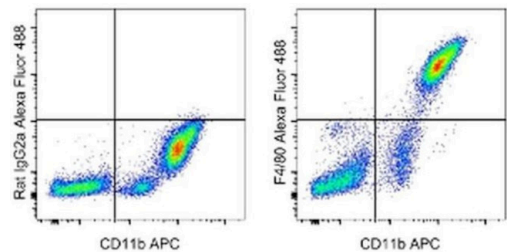
Applications Reported: This BM8 antibody has been reported for use in flow cytometric analysis.

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: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For F4/80 Monoclonal Antibody (BM8), Alexa Fluor™ 488, eBioscience™



F4/80 Antibody (53-4801-82) 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 Alexa Fluor® 488 (Product # 53-4321-80) (left) or 0.25 µg of Anti-Mouse F4/80 Antigen Alexa Fluor® 488 (right). Cells in the large scatter population were used for analysis.

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Immunohistochemistry (152)

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| <p>Nature communications</p> <p>Streptococcus agalactiae cadD alleviates metal stress and promotes intracellular survival in macrophages and ascending infection during pregnancy.</p> <p>"Published figure using F4/80 monoclonal antibody (Product # 53-4801-82) in Immunohistochemistry"</p> <p>Authors: Korir ML,Doster RS,Lu J,Guevara MA,Spicer SK,Moore RE,Francis JD,Rogers LM,Haley KP,Blackman A, Noble KN,Eastman AJ,Williams JA,Damo SM,Boyd KL,Townsend SD,Henrique Serezani C,Aronoff DM,Manning SD, Gaddy JA</p> | <p>Year</p> <p>2022</p> |
| <p>Nature communications</p> <p>Lactational delivery of Triclosan promotes non-alcoholic fatty liver disease in newborn mice.</p> <p>"Published figure using F4/80 monoclonal antibody (Product # 53-4801-82) in Immunohistochemistry"</p> <p>Authors: Weber AA,Yang X,Mennillo E,Ding J,Watrous JD,Jain M,Chen S,Karin M,Tukey RH</p> | <p>Year</p> <p>2022</p> |

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Immunohistochemistry (Paraffin) (4)

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| <p>Cell death and differentiation</p> <p>Kupffer cell receptor CLEC4F is important for the destruction of desialylated platelets in mice.</p> <p>"Published figure using F4/80 monoclonal antibody (Product # 53-4801-82) in Immunocytochemistry"</p> <p>Authors: Jiang Y,Tang Y,Hoover C,Kondo Y,Huang D,Restagno D,Shao B,Gao L,Michael McDaniel J,Zhou M,Silasi-Mansat R,McGee S,Jiang M,Bai X,Lupu F,Ruan C,Marth JD,Wu D,Han Y,Xia L</p> | <p>Year</p> <p>2021</p> |
| <p>Frontiers in immunology</p> <p>Murine Fecal Microbiota Transplantation Alleviates Intestinal and Systemic Immune Responses in <i>Campylobacter jejuni</i> Infected Mice Harboring a Human Gut Microbiota.</p> <p>"Published figure using F4/80 monoclonal antibody (Product # 53-4801-82) in Immunohistochemistry (Paraffin)"</p> <p>Authors: Heimesaat MM,Mrazek K,Bereswill S</p> | <p>Year</p> <p>2020</p> |

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- IHC (PFA) (2)
- IHC (F) (5)
- ICC/IF (46)
- Flow (187)
- Misc (1)

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