F4/80 Monoclonal Antibody (BM8), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BM8
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469653

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	112 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: 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 10^5 to 10^8 cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

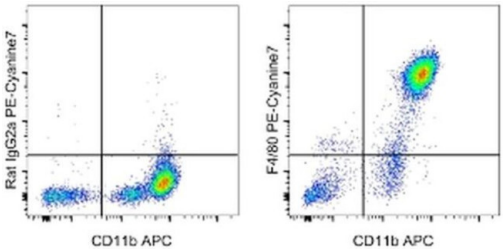
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step

Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For F4/80 Monoclonal Antibody (BM8), PE-Cyanine7, eBioscience™



F4/80 Antibody (25-4801-82) in Flow
Staining of C57Bl/6 resident peritoneal exudate cells with Anti-Mouse CD11b APC (Product # 17-0112-82) and 0.25 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.25 µg of Anti-Mouse F4/80 Antigen PE-Cyanine7 (right). Cells in the large scatter population were used for analysis.

113 References

Immunohistochemistry (Frozen) (1)

Journal of leukocyte biology

Macrophages in the murine pancreas and their involvement in fetal endocrine development in vitro.

Authors: Geutskens SB,Otonkoski T,Pulkkinen MA,Drexhage HA,Leenen PJ

Year
2005

Flow Cytometry (112)

International journal of molecular sciences

Analysis of the Role of Stellate Cell VCAM-1 in NASH Models in Mice.

"25-4801-82 was used in Flow cytometry/Cell sorting to study the role of the pro-inflammatory adhesion molecule vascular cell adhesion molecule-1 (VCAM-1) in HSCs in NASH."

Authors: Chung KJ,Legaki AI,Papadopoulos G,Gercken B,Gebler J,Schwabe RF,Chavakis T,Chatzigeorgiou A

Year
2023

Species
Mouse

British journal of pharmacology

Gut microbiota-derived nicotinamide mononucleotide alleviates acute pancreatitis by activating pancreatic SIRT3 signalling.

"25-4801-82 was used in Flow cytometry/Cell sorting to investigate the effect of gut microbiota and microbiota-derived metabolites on AP and further clarify the mechanisms associated with pancreatic damage and inflammation."

Authors: Liu LW,Xie Y,Li GQ,Zhang T,Sui YH,Zhao ZJ,Zhang YY,Yang WB,Geng XL,Xue DB,Chen H,Wang YW,Lu TQ, Shang LR,Li ZB,Li L,Sun B

Year
2023

Species
Mouse

Dilution
1:20

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn