

Product Datasheet

F4/80 Antibody (BM8) NBP1-60140

Unit Size: 0.1 mg

Store at 4C.

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NBP1-60140

F4/80 Antibody (BM8)

Product Information	
Unit Size	0.1 mg
Concentration	0.1 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	BM8
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Protein G purified
Buffer	0.2 um filtered solution in PBS and 0.1% BSA
Target Molecular Weight	160 kDa

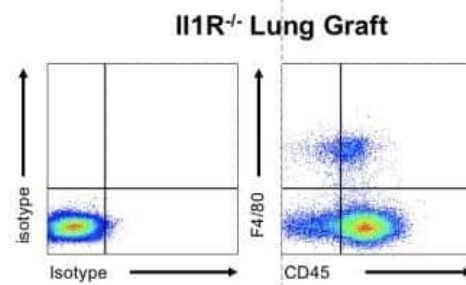
Product Description	
Description	Positive Control: Mouse macrophages Negative control: Mouse fibroblasts or granulocytes
Host	Rat
Gene ID	13733
Gene Symbol	Adgre1
Species	Mouse
Marker	Macrophage Marker
Specificity/Sensitivity	
Immunogen	This F4/80 Antibody (BM8) was developed against BALB/c macrophages obtained from 14-day-old bone marrow cell cultures.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Knockout Validated
Application Notes	This antibody works in Flow Cytometry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Western Blot. The typical starting working dilution is 1:50. F4/80 is sensitive to 2-mercaptoethanol. The antibody requires proteinase K treatment of paraffin sections. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID : 28937879).

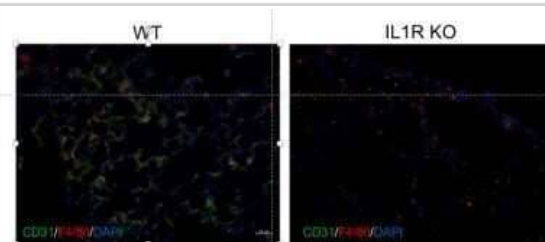


Images

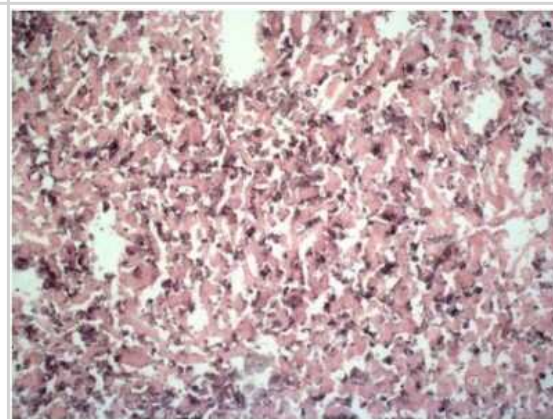
Flow Cytometry: F4/80 Antibody (BM8) [NBP1-60140] - Splenocytes isolated from a IL1R^{-/-} mouse (IL1b receptor KO) were stained with and CD45-e450 (1:100 in FACS buffer) for 30 minutes. Cells were then washed and analyzed by flow cytometry. Left panel shows the isotype control. This image was submitted via a customer review. Image from the PE version of this antibody.



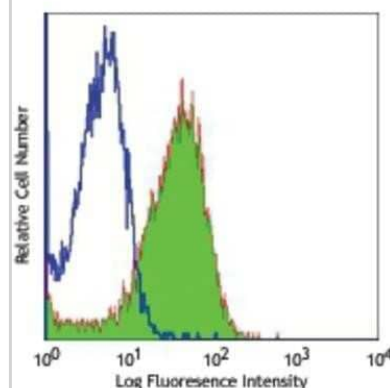
Immunohistochemistry-Frozen: F4/80 Antibody (BM8) [NBP1-60140] - Red: F4/80, Green: CD31/PECAM-1, Blue: DAPI+ nuclei. Frozen mouse lung tissues of WT B6 and IL1R^{-/-} (knockout) mice were blocked with 1% BSA in PBS and were double stained with PE-conjugated F4/80 and Alex647-conjugated CD31/PECAM-1 antibody (MEC 7.46) for 2 hours at the room temperature. This image was submitted via a customer review. Image from the PE version of this antibody.



Immunohistochemistry: F4/80 Antibody (BM8) [NBP1-60140] - Expression on macrophages in mouse liver. Staining of frozen tissue section with antibody BM8.



Flow Cytometry: F4/80 Antibody (BM8) [NBP1-60140] - Analysis using the FITC conjugate of NBP1-60140. Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with BM8 FITC.



Publications

Madi A, Sheinin R, Salomon K et al. interFLOW: maximum flow framework for the identification of factors mediating the signaling convergence of multiple receptors Research Square 2023-10-31 (IHC, Mouse)

Regan, DP;Coy, JW;Chahal, KK;Chow, L;Kurihara, JN;Guth, AM;Kufareva, I;Dow, SW; The Angiotensin Receptor Blocker Losartan Suppresses Growth of Pulmonary Metastases via AT1R-Independent Inhibition of CCR2 Signaling and Monocyte Recruitment J. Immunol. 2019-04-10 [PMID: 30971441] (ICC/IF, Mouse)

de Paula Oliveira Santos B, Trentini MM, Machado RB et al. Advax4 delta inulin combination adjuvant together with ECMX, a fusion construct of three protective mTB antigens, induces a potent Th1 immune response and protects mice against Mycobacterium tuberculosis infection Hum Vaccin Immunother 2017-09-22 [PMID: 28937879] (ICC/IF, Mouse)

Liu X, Zhou H, Huang X et al. A Broad Blockade of Signaling from the IL-20 Family of Cytokines Potently Attenuates Collagen-Induced Arthritis J. Immunol. 2016-09-12 [PMID: 27619991] (IF/IHC, Mouse)

Details:
F4/80 antibody was used as a macrophage marker in tissue sections from CIA model mice in IHC analysis

Poeckel D, Zemski Berry KA, Murphy RC et al. Dual 12/15- and 5-lipoxygenase deficiency in macrophages alters arachidonic acid metabolism and attenuates peritonitis and atherosclerosis in ApoE knock-out mice J Biol Chem [PMID: 19509298]

Details:
Used the FITC form of this antibody.

Kobayashi M, Yoshida T, Takeuchi D et al. Gr-1(+)CD11b(+) cells as an accelerator of sepsis stemming from Pseudomonas aeruginosa wound infection in thermally injured mice J Leukoc Biol 2008-06-01 [PMID: 18372338]

Details:
This citation used the FITC version of this antibody.

Stevceva L, Pavli P, HusbAJ et al. The inflammatory infiltrate in the acute stage of the dextran sulphate sodium induced colitis: B cell response differs depending on the percentage of DSS used to induce it BMC Clin Pathol 1905-06-23 [PMID: 11580872]

Details:
Used the FITC form of this antibody.

Schaller E, Macfarlane AJ, Rupec RA et al. Inactivation of the F4/80 glycoprotein in the mouse germ line. Mol Cell Biol. 2002-11-01 [PMID: 12391169]

Mackler AM, Iezza G, Akin MR et al. Macrophage trafficking in the uterus and cervix precedes parturition in the mouse. Biol Reprod. 1999-10-01 [PMID: 10491619]

Leenen PJ, de Bruijn MF, Voerman JS et al. Markers of mouse macrophage development detected by monoclonal antibodies. J Immunol Methods. 1994-09-01 [PMID: 8083537]

Malorny U, Michels E, Sorg C et al. A monoclonal antibody against an antigen present on mouse macrophages and absent from monocytes. Cell Tissue Res. 1986-01-01 [PMID: 3948241]





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Products Related to NBP1-60140

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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