





F4/80 Monoclonal Antibody (BM8), PE

Catalog Number MF48004 Product data sheet

Details	
Size	500 μL
Host/Isotope	Rat / IgG2a
Class	Monoclonal
Туре	Antibody
Clone	BM8
Immunogen	mouse F4/80 which is a macrophage-restricted cell surface glycoprotein.
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Storage Conditions	4° C

Species Reactivity		
Published species	Mouse, Not Applicable	
Tested Applications	Dilution *	
Flow Cytometry (Flow)	Assay-dependent	
Published Applications		
Flow Cytometry (Flow)	See 19 publications below	
Immunohistochemistry (IHC)	See 2 publications below	
Immunocytochemistry (ICC/IF)	See 1 publications below	
Immunohistochemistry (Paraffin) (IHC (P))	See 2 publications below	
Miscellaneous PubMed (Misc)	See 3 publications below	
Western Blot (WB)	See 1 publications below	

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

F4/80 antigen is a 160 kDa cell surface glycoprotein that is a member of the EGF TM7 family of proteins and shares 68% overall amino acid identity with human EGF module containing mucin like hormone receptor 1 (EMR1). Expression of F4/80 is heterogeneous and is reported to vary during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans, microglia, macrophages located in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen. F4/80 expression has also been reported on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node. The ligands and biological functions of the F4/80 antigen have not yet been determined but recent studies suggest a role for F4/80 in the generation of efferent CD8+ve regulatory T cells.

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19 Flow Cytometry References		
Species / Dilution	Summary	
	MF48004-3 was used in Flow cytometry/Cell sorting to demonstrate pharmacological effects of XELH against viral pneumonia: it inhibits pro-inflammatory cytokines, viral replication and load.	
Mouse / Not Cited	Pharmaceutical biology (2022; 60: 2355) "XiaoEr LianHuaQinqGan alleviates viral pneumonia in mice infected by influenza A and respiratory syncytial viruses." Author(s):Li W,Li T,Zhao C,Song T,Mi Y,Chuangfeng Z,Hou Y,Jia Z PubMed Article URL:http://dx.doi.org/10.1080/13880209.2022.2147961	
	MF48004 was used in flow cytometry to test if macrophages contribute to the effect of daratumumab treatment.	
Mouse / Not Cited	mAbs (2015; 7: 311) "Antibody-mediated phagocytosis contributes to the anti-tumor activity of the therapeutic antibody daratumumak in lymphoma and multiple myeloma." Author(s):Overdijk MB,Verploegen S,Bögels M,van Egmond M,Lammerts van Bueren JJ,Mutis T,Groen RW,Breij E, Martens AC,Bleeker WK,Parren PW PubMed Article URL:http://dx.doi.org/10.1080/19420862.2015.1007813	
Mouse / Not Cited	MF48004 was used in Flow cytometry/Cell sorting to indicate that acute MNV4 infection is immunomodulatory and alters disease progression in a mouse model of inflammatory bowl disease.	
	Comparative medicine (2008; 58: 522) "Murine norovirus: an intercurrent variable in a mouse model of bacteria-induced inflammatory bowel disease." Author(s):Lencioni KC,Seamons A,Treuting PM,Maggio-Price L,Brabb T PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/19149409	
	MF48004 was used in flow cytometry to investigate how lymphocytes traffic between the peritoneal cavity and omentum	
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2009; 183: 1155) "Lymphocytes in the peritoneum home to the omentum and are activated by resident dendritic cells." Author(s):Carlow DA,Gold MR,Ziltener HJ PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.0900409	
	MF48004 was used in Flow cytometry/Cell sorting to investigate the mechanisms involved in crosstalk between immune cells and the epithelium in mucosal barrier repair.	
Mouse / Not Cited	The Journal of clinical investigation (2017; 127: 3510) "Macrophage-derived IL-10 mediates mucosal repair by epithelial WISP-1 signaling." Author(s):Quiros M,Nishio H,Neumann PA,Siuda D,Brazil JC,Azcutia V,Hilgarth R,O'Leary MN,Garcia-Hernandez V,Leoni G,Feng M,Bernal G,Williams H,Dedhia PH,Gerner-Smidt C,Spence J,Parkos CA,Denning TL,Nusrat A PubMed Article URL:http://dx.doi.org/10.1172/JCl90229	
Mouse / 1:200	MF48004 was used in Flow cytometry/Cell sorting to demonstrate that radiation-induced senescent glioblastoma cells exhibit a senescence-associated secretory phenotype that functions through NFB signalling to influence changes in the tumour microenvironment.	
	Cell death and differentiation (2019; 26: 2139) "Ly6G ⁺ inflammatory cells enable the conversion of cancer cells to cancer stem cells in an irradiated glioblastoma model." Author(s):Jeon HY,Ham SW,Kim JK,Jin X,Lee SY,Shin YJ,Choi CY,Sa JK,Kim SH,Chun T,Jin X,Nam DH,Kim H PubMed Article URL:http://dx.doi.org/10.1038/s41418-019-0282-0	
	MF48004 was used in flow cytometry to measure the number of splenic myeloid progenitors and their progeny after burn injury	
Not Applicable / Not Cited	Shock (Augusta, Ga.) (2005; 23: 115) "Effect of thermal injury on splenic myelopoiesis." Author(s):Noel JG,Guo X,Wells-Byrum D,Schwemberger S,Caldwell CC,Ogle CK PubMed Article URL:http://dx.doi.org/10.1097/01.shk.0000154239.00887.18	
	MF48004 was used in flow cytometry to elucidate how Schistosoma mansoni suppresses T cell activation	
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md.: 1950) (2004; 173: 1240) "Schistosoma mansoni worms induce anergy of T cells via selective up-regulation of programmed death ligand 1 on macrophages." Author(s):Smith P,Walsh CM,Mangan NE,Fallon RE,Sayers JR,McKenzie AN,Fallon PG PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.173.2.1240	

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	MF48004 was used in flow cytometry to assess surface expression of C-type lectin-like receptor 2 on hematopoietic cells from peripheral blood and secondary lymphoid organs
Mouse / Not Cited	European journal of immunology (2015; 45: 2484) "The expression of mouse CLEC-2 on leucocyte subsets varies according to their anatomical location and inflammatory state." Author(s):Lowe KL,Navarro-Núñez L,Bénézech C,Nayar S,Kingston BL,Nieswandt B,Barone F,Watson SP,Buckley CD, Desanti GE
	PubMed Article URL:http://dx.doi.org/10.1002/eji.201445314
Not Applicable / Not Cited	MF48004 was used in flow cytometry to assess changes in the estrogen receptor alpha protein in macrophages during the preimplantation period
	Reproductive biology (2009; 9: 225) "The influence of mating on estrogen receptor alpha protein level in spleen and uterine macrophages in female mice." Author(s):Piesta A,Maj T,Chemoska-Soyta A PubMed Article URL:http://dx.doi.org/10.1016/s1642-431x(12)60028-x
Mouse / Not Cited	MF48004-3 was used in Flow Cytometry to suggest DJ-1 as a potential therapeutic and/or prophylactic target of APAP-induced acute liver injury.
	Aging (2021; 13: 18879) "Myeloid DJ-1 deficiency protects acetaminophen-induced acute liver injury through decreasing inflammatory response." Author(s):Wang B,Li J,Jiao J,Xu M,Luo Y,Wang F,Xia Q,Gao Y,Feng Y,Kong X,Sun X
	PubMed Article URL:http://dx.doi.org/10.18632/aging.203340
Mouse / Not Cited	MF48004 was used in Flow cytometry/Cell sorting to uncover a role of TTP as a suppressor of feedback inhibitors of inflammation and highlight the importance of TTP activity-regulation by MK2 to control the pro-inflammatory response.
	Nucleic acids research (2016; 44: 7418) "The RNA-binding protein TTP is a global post-transcriptional regulator of feedback control in inflammation." Author(s):Tiedje C,Diaz-Muñoz MD,Trulley P,Ahlfors H,Laaß K,Blackshear PJ,Turner M,Gaestel M PubMed Article URL:http://dx.doi.org/10.1093/nar/gkw474
Not Applicable / Not Cited	MF48004 was used in flow cytometry to elucidate the mechanisms that regulate the inverse relationship between helminth infections and allergies
	Journal of immunology (Baltimore, Md. : 1950) (2006; 176: 138) "Helminth-modified pulmonary immune response protects mice from allergen-induced airway hyperresponsiveness." Author(s):Mangan NE,van Rooijen N,McKenzie AN,Fallon PG PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.176.1.138
Mouse / 1:400	MF48004 was used in flow cytometry to explore how bacterial infections alter the mitochondrial electron-transport chain in macrophages
	Nature immunology (2016; 17: 1037) "Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense." Author(s):Garaude J,Acín-Pérez R,Martínez-Cano S,Enamorado M,Ugolini M,Nistal-Villán E,Hervás-Stubbs S,Pelegrín P, Sander LE,Enríquez JA,Sancho D PubMed Article URL:http://dx.doi.org/10.1038/ni.3509
	MF48004 was used in flow cytometry to study the regulation of CTLA-4+ and CD25+ T cells in schistosome infection
Not Applicable / Not Cited	Parasite immunology (2007; 29: 293) "Role for CTLA-4 but not CD25+ T cells during Schistosoma mansoni infection of mice." Author(s):Walsh CM,Smith P,Fallon PG PubMed Article URL:http://dx.doi.org/10.1111/j.1365-3024.2007.00947.x
	MF48004 was used in flow cytometry to investigate the role of Y-box protein during early hematopoietic differentiation and leukemia.
Mouse / Not Cited	Immunogenetics (2011; 63: 337) "YBX1 expression and function in early hematopoiesis and leukemic cells." Author(s):Bhullar J,Sollars VE PubMed Article URL:http://dx.doi.org/10.1007/s00251-011-0517-9

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	MF48004 was used in Flow cytometry/Cell sorting to determine the role of PHc2 in controlling the mobilisation of hematopoietic stem and progenitor cells.
Mouse / 1:100	Nature communications (2019; 10:) "Phc2 controls hematopoietic stem and progenitor cell mobilization from bone marrow by repressing Vcam1
	expression." Author(s):Bae J,Choi SP,Isono K,Lee JY,Park SW,Choi CY,Han J,Kim SH,Lee HH,Park K,Jin HY,Lee SJ,Park CG,Koseki H,Lee YS,Chun T PubMed Article URL:http://dx.doi.org/10.1038/s41467-019-11386-4
	Published figure using F4/80 monoclonal antibody (Product # MF48004) in Flow Cytometry
Not Applicable / Not Cited	Nature communications (2019; 10:) "Inflammation induced by incomplete radiofrequency ablation accelerates tumor progression and hinders PD-1 immunotherapy." Author(s):Shi L,Wang J,Ding N,Zhang Y,Zhu Y,Dong S,Wang X,Peng C,Zhou C,Zhou L,Li X,Shi H,Wu W,Long X,Wu C, Liao W
	PubMed Article URL:http://dx.doi.org/10.1038/s41467-019-13204-3
	MF48004 was used in Flow cytometry/Cell sorting to investigate the impact of BMPR2 mutations on SMAD signalling.
Mouse / Not Cited	PloS one (2015; 9:) "BMP pathway regulation of and by macrophages." Author(s):Talati M,West J,Zaynagetdinov R,Hong CC,Han W,Blackwell T,Robinson L,Blackwell TS,Lane K PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0094119
2 Immunohistochemistry F	References
Species / Dilution	Summary
	MF48004 was used in Immunohistochemistry-immunofluorescence to study the therapeutic potential of stem cells in Wilson's disease.
Mouse / 1:100	Gene expression (2018; 19: 15) "In <i>Atp7b</i> Mice Modeling Wilson's Disease Liver Repopulation With Bone Marrow-Derived Myofibroblasts or Inflammatory Cells and Not Hepatocytes Is Deleterious." Author(s):Sharma Y,Liu J,Kristian KE,Follenzi A,Gupta S PubMed Article URL:http://dx.doi.org/10.3727/105221618X15320123457380
Mouse / 1:250	MF48004-3 was used in immunohistochemistry to investigate the role of ShcA PTB domain in phosphotyrosine signaling during breast cancer progression
	Cancer research (2013; 73: 4521) "The ShcA PTB domain functions as a biological sensor of phosphotyrosine signaling during breast cancer progression."
	Author(s):Ahn R,Sabourin V,Ha JR,Cory S,Maric G,Im YK,Hardy WR,Zhao H,Park M,Hallett M,Siegel PM,Pawson T, Ursini-Siegel J PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-12-4178
1 Immunocytochemistry R	
Species / Dilution	Summary
	MF48004 was used in Flow cytometry/Cell sorting to investigate the mechanisms involved in crosstalk between immune cells and the epithelium in mucosal barrier repair.
Mouse / Not Cited	The Journal of clinical investigation (2017; 127: 3510) "Macrophage-derived IL-10 mediates mucosal repair by epithelial WISP-1 signaling." Author(s):Quiros M,Nishio H,Neumann PA,Siuda D,Brazil JC,Azcutia V,Hilgarth R,O'Leary MN,Garcia-Hernandez V,Leoni G,Feng M,Bernal G,Williams H,Dedhia PH,Gerner-Smidt C,Spence J,Parkos CA,Denning TL,Nusrat A PubMed Article URL:http://dx.doi.org/10.1172/JCl90229
2 Immunohistochemistry (Paraffin) References
Species / Dilution	Summary
	MF48004 was used in immunohistochemistry - paraffin section to assess the role of individual TAM family proteins during autophagy induction and hepatic inflammation
Mouse / Not Cited	Autophagy (2016; 12: 2326) "Autophagy induced by AXL receptor tyrosine kinase alleviates acute liver injury via inhibition of NLRP3 inflammasome activation in mice." Author(s):Han J,Bae J,Choi CY,Choi SP,Kang HS,Jo EK,Park J,Lee YS,Moon HS,Park CG,Lee MS,Chun T PubMed Article URL:http://dx.doi.org/10.1080/15548627.2016.1235124

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MF48004 was used in immunohistochemistry - paraffin section to learn how promotion of lung metastasis occurs by E2f3 in tumor macrophages

Not Applicable / Not Cited

Oncogene (2016; 35: 3636)

"E2f3 in tumor macrophages promotes lung metastasis."

Author(s):Trikha P,Sharma N,Pena C,Reyes A,Pécot T,Khurshid S,Rawahneh M,Moffitt J,Stephens JA,Fernandez SA, Ostrowski MC,Leone G

PubMed Article URL:http://dx.doi.org/10.1038/onc.2015.429

3 Miscellaneous PubMe	d References
Species / Dilution	Summary
Mouse / Not Cited	MF48004 was used in flow cytometry to report that Shp1 regulates DC functions and prevents autoimmunity.
	Journal of immunology (Baltimore, Md.: 1950) (2012; 188: 5397) "Dendritic cell-specific ablation of the protein tyrosine phosphatase Shp1 promotes Th1 cell differentiation and induces autoimmunity." Author(s):Kaneko T,Saito Y,Kotani T,Okazawa H,Iwamura H,Sato-Hashimoto M,Kanazawa Y,Takahashi S,Hiromura K, Kusakari S,Kaneko Y,Murata Y,Ohnishi H,Nojima Y,Takagishi K,Matozaki T PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1103210
Mouse / Not Cited	MF48004 was used in flow cytometry to investigate the effects of high n-3 FA diets on early stages of myelopoiesis
	Lipids (2011; 46: 47) "A high omega-3 fatty acid diet has different effects on early and late stage myeloid progenitors." Author(s):Varney ME,Buchanan JT,Dementieva Y,Hardman WE,Sollars VE PubMed Article URL:http://dx.doi.org/10.1007/s11745-010-3491-3
Mouse / Not Cited	MF48004 was used in flow cytometry to report that beta-CN peptide enhances antimicrobial activity of macrophages without proinflammatory effects.
	The Journal of nutrition (2001; 131: 2936) "A peptide derived from bovine beta-casein modulates functional properties of bone marrow-derived macrophages from germfree and human flora-associated mice." Author(s):Sandré C,Gleizes A,Forestier F,Gorges-Kergot R,Chilmonczyk S,Léonil J,Moreau MC,Labarre C PubMed Article URL:http://dx.doi.org/10.1093/jn/131.11.2936
1 Western Blot Referen	ces
Species / Dilution	Summary
Mouse / Not Cited	MF48004 was used in Western Blotting to demonstrate that the mouse miR-143/145 cluster, is required for vascular smooth muscle cell acquisition of the contractile phenotype.
	The Journal of clinical investigation (2009; 119: 2634) "Acquisition of the contractile phenotype by murine arterial smooth muscle cells depends on the Mir143/145 gene cluster." Author(s):Boettger T,Beetz N,Kostin S,Schneider J,Krüger M,Hein L,Braun T PubMed Article URL:http://dx.doi.org/10.1172/JCI38864

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