### F4/80 Monoclonal Antibody (BM8)

**Catalog Number** MF48000

<table>
<thead>
<tr>
<th>Details</th>
<th>Species Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Mouse</td>
</tr>
<tr>
<td>Host/Isotope</td>
<td>Mouse, Human, Not Applicable</td>
</tr>
<tr>
<td>Class</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Type</td>
<td>Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>BM8</td>
</tr>
<tr>
<td>Immunogen</td>
<td>mouse F4/80 which is a macrophage-restricted cell surface glycoprotein.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>Unconjugated</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Purification</td>
<td>purified</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>PBS</td>
</tr>
<tr>
<td>Contains</td>
<td>0.1% sodium azide</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>4° C</td>
</tr>
</tbody>
</table>

**Species Reactivity**
- Flow Cytometry (Flow) - Assay Dependent
- Immunohistochemistry (Paraffin) (IHC (P)) - See 9 publications below
- Immunohistochemistry (IHC) - See 12 publications below
- Immunofluorescence (IF) - See 4 publications below
- Immunocytochemistry (ICC) - See 1 publications below
- Flow Cytometry (Flow) - See 17 publications below
- Immunohistochemistry (Frozen) (IHC (F)) - See 4 publications below
- Miscellaneous PubMed (Misc) - See 16 publications below

**Published Applications**

**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.

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable / 1:200</td>
<td>MF48000 was used in immunohistochemistry - paraffin section to utilize rodent models of basement membrane, obstructive injury, and podocyte by an inhibitor of adenosine kinase, A-306989, that is renoprotective</td>
</tr>
<tr>
<td>Not Applicable / 1:500</td>
<td>MF48000 was used in immunohistochemistry - paraffin section to test the expression of activated Ras in gastric chief cells in mice and the metabolic lineage transitions</td>
</tr>
<tr>
<td>Mouse / 1:100</td>
<td>MF48000 was used in immunohistochemistry on paraffin embedded tissues to study the expression of karyopherin alpha 2 in pancreatic ductal atypia and in normal pancreatic tissues.</td>
</tr>
<tr>
<td>Mouse / Not Cited</td>
<td>MF48000 was used in immunohistochemistry on paraffin section to determine how the progression of rhabdomyolysis-induced kidney injury is influenced by specific macrophage subtypes</td>
</tr>
<tr>
<td>Not Applicable / 1:100</td>
<td>MF48000 was used in immunohistochemistry - paraffin section to investigate the effects of a CDK4/6 inhibitor on the senescence-associated secretory phenotype</td>
</tr>
<tr>
<td>Mouse / 1:500</td>
<td>MF48000 was used in immunohistochemistry - paraffin section to test the expression of activated Ras in gastric chief cells in mice and the metabolic lineage transitions</td>
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</tbody>
</table>


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MF48000 was used in Immunohistochemistry on paraffin embedded tissues to identify CD11b(+) classical dendritic cells as the source of IL-23 in C. rodentium infected mice.

**Species / Dilution**

<table>
<thead>
<tr>
<th>Summary</th>
<th>Species</th>
<th>Dilution</th>
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<tbody>
<tr>
<td>MF48000 was used in Immunohistochemistry to identify CD11b(+) classical dendritic cells as the source of IL-23 in C. rodentium infected mice</td>
<td>Human</td>
<td>/ 1:100</td>
</tr>
<tr>
<td>Nature immunology (Sep 2013: 14: 937)</td>
<td>Mouse</td>
<td>/ Not Cited</td>
</tr>
</tbody>
</table>
| "Notch2-dependent classical dendritic cells orchestrate intestinal immunity to attaching-and-effacing bacterial pathogens."
| "Inhibition of Triggering Receptor Expressed on Myeloid Cells 1 Ameliorates Inflammation and Macrophage and Neutrophil Activation in Alcoholic Liver Disease in Mice."
Author(s): Tornai D, Furi I, Shen ZT, Sigatov AB, Coban S, Szabó G | Mouse   | / Not Cited |
| MF48000 was used in Immunohistochemistry to study the effects of ligand-independent TREM-1 inhibitory peptides that were formulated into human high-density lipoprotein-mimicking complexes GF9-HDL and GA/E31-HDL. | Mouse   | / Not Cited |
| Cancer cell (Dec 2012: 18: 1768) "Loss of p53 in enterocytes generates an inflammatory microenvironment enabling invasion and lymph node metastasis of carcinogen-induced colorectal tumors."
| "Obesity in mice with adipocyte-specific deletion of clock component Arnti."
| MF48000 was used in Immunohistochemistry to demonstrate that loss of p53 alone is insufficient to initiate intestinal tumorigenesis but enhances carcinogen-induced tumor incidence. | Mouse   | / Not Cited |
| Nature medicine (Dec 2012: 18: 1768) "Obesity in mice with adipocyte-specific deletion of clock component Arnti."
| MF48000 was used in Immunohistochemistry to identify CD11b(+) classical dendritic cells as the source of IL-23 in C. rodentium infected mice | Mouse   | / 1:20   |
| Developmental biology (Jun 2011: 354: 253) "Connexin37 and Connexin43 deficiencies in mice disrupt lymphatic valve development and result in lymphatic disorders including lymphedema and chylothorax."
Author(s): Kanady JD, Dellinger MT, Munger SJ, Witte MH, Simon AM | Mouse   | / Not Cited |


MF48000 was not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.
**Mouse / 1:100**

Osteoarthritis and cartilage (Jan 2019; 27: 118)

"**Human C-reactive protein aggravates osteoarthritis development in mice on a high-fat diet.**"


PubMed Article URL: http://dx.doi.org/10.1016/j.joca.2018.09.007

---

**Mouse / 1:50**

Molecular oncology (Jan 2015; 9: 179)

"**BMP2R loss in fibroblasts promotes mammary carcinoma metastasis via increased inflammation.**"

Author(s): Pickup MW, Hover LD, Polilikowsky ER, Chylli A, Gorska AE, Novitsky SV, Moses HL, Owens P

PubMed Article URL: http://dx.doi.org/10.1016/j.molonc.2014.08.004

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**Mouse / 1:100**

Proceedings of the National Academy of Sciences of the United States of America (May 2018; 115: E4236)

"**MK2 contributes to tumor progression by promoting M2 macrophage polarization and tumor angiogenesis.**"

Author(s): Suarez-Lopez L, Sriram G, Kong YW, Morandell S, Merrick KA, Hernandez Y, Haigis KM, Yaffe MB

PubMed Article URL: http://dx.doi.org/10.1073/pnas.1722020115

---

**Human / 1:200**

Cell death and differentiation (Oct 2019; 26: 2139)

"**Ly6G<sup>+</sup> inflammatory cells enable the conversion of cancer cells to cancer stem cells in an irradiated glioblastoma model.**"


PubMed Article URL: http://dx.doi.org/10.1038/s41418-019-0282-0

---

**Human / Not Cited**

Journal for immunotherapy of cancer (Feb 2019; 7: null)

"**Immunotherapy of triple-negative breast cancer with cathepsin D-targeting antibodies.**"


PubMed Article URL: http://dx.doi.org/10.1186/s40425-019-0498-z

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**Mouse / Not Cited**

Nature communications (Nov 2018; 9: null)

"**PTEN expression by an oncolytic herpesvirus directs T-cell mediated tumor clearance.**"


PubMed Article URL: http://dx.doi.org/10.1038/s41467-018-07344-1

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### 4 Immunofluorescence References

<table>
<thead>
<tr>
<th>Species</th>
<th>Dilution</th>
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<tbody>
<tr>
<td>Human</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61015 USA

thermofisher.com/contactus
MF48000 was used in immunofluorescence to show that macrophages produce cell type-specific signals required for pancreatic regeneration in mice.

**Mouse / Not Cited**

**Autophagy (Dec 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

MF48000 was used in Immunocytochemistry-inmunofluorescence to study the regulation and function of HILPDA in murine macrophages and its effects on atherogenesis in apolipoprotein E deficient mice.

**Mouse / Not Cited**

**Hypoxia-inducible protein 2 Hig2/Hilpda mediates neutral lipid accumulation in macrophages and contributes to atherosclerosis in apolipoprotein E-deficient mice.**


PubMed Article URL:http://dx.doi.org/10.1096/fj.201700235R

MF48000 was used in Immunohistochemistry-inmunofluorescence to demonstrate that radiation-induced senescent globinoma cells exhibit a senescence-associated secretory phenotype that functions through NFB signaling to influence changes in the tumour microenvironment.

**Human / 1:200**

Cell death and differentiation (Oct 2019; 26: 2139)

"Ly6G+suppressor cells in the tumor microenvironment contribute to tumor growth through secretory pathway activity.


PubMed Article URL:http://dx.doi.org/10.1038/s41418-019-0282-0

### 1 Immunocytochemistry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
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</tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>Mouse / Not Cited</td>
<td>FASEB journal : official publication of the Federation of American Societies for Experimental Biology (Nov 2017; 31: 4971) &quot;Hypoxia-inducible protein 2 Hig2/Hilpda mediates neutral lipid accumulation in macrophages and contributes to atherosclerosis in apolipoprotein E-deficient mice.&quot;</td>
<td><a href="http://dx.doi.org/10.1096/fj.201700235R">http://dx.doi.org/10.1096/fj.201700235R</a></td>
</tr>
</tbody>
</table>

### 17 Flow Cytometry References

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
<th>PubMed Article URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable / Not Cited</td>
<td>MF48000 was used in flow cytometry to study abnormal growth and ductal carcinoma in situ by aberrant activation of NF-kappaB signaling in mammary epithelium leads</td>
<td></td>
</tr>
<tr>
<td>Mouse / Not Cited</td>
<td>FASEB journal : official publication of the Federation of American Societies for Experimental Biology (Nov 2017; 31: 4971) &quot;Hypoxia-inducible protein 2 Hig2/Hilpda mediates neutral lipid accumulation in macrophages and contributes to atherosclerosis in apolipoprotein E-deficient mice.&quot;</td>
<td><a href="http://dx.doi.org/10.1096/fj.201700235R">http://dx.doi.org/10.1096/fj.201700235R</a></td>
</tr>
</tbody>
</table>


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Mouse / Not Cited

The Journal of experimental medicine (May 2017; 214: 1269)
"TLR4 signals in B lymphocytes are transduced via the B cell antigen receptor and SYK."
Author(s): Schwegelhofer E.Nys J, Vanes L, Smithers N, Tybulewicz VLJ
PubMed Article URL: http://dx.doi.org/10.1084/jem.20161117

Not Applicable / Not Cited

Parasite immunology (Jun 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.1365-3024.2007.0947.x

Not Applicable / Not Cited

"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/10.1088/1752-3198/12/3/031

Mouse / Not Cited

PloS one (Sep 2017; 12: null)
"Robust growth of avirulent phase II Coxiella burnetii in bone marrow-derived murine macrophages."
Author(s): Cockrell DC, Long CM, Robertson SJ, Shannon JG, Miller HE, Myers L, Larson CL, Starr T, Beare PA, Heinzen RA
PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0173528

Mouse / Not Cited

"IL-10 Plays Opposing Roles during <i>&lt;</i>Staphylococcus aureus<i>&gt;</i> Systemic and Localized Infections."
Author(s): Leech JM, Lacey KA, Mulcahy ME, Medina E, McLoughlin RM
PubMed Article URL: http://dx.doi.org/10.1084/jem.198.6.2352

Mouse / Not Cited

PloS pathogens (Dec 2011; 7: null)
"Neonatal CD8 T-cell hierarchy is distinct from adults and is influenced by intrinsic T cell properties in respiratory syncytial virus infected mice."
Author(s): Ruckwardt TJ, Malloy AM, Gostick E, Price DA, Dash P, McClaren JL, Thomas PG, Graham BS
PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1002377

Not Applicable / Not Cited

Nature communications (Jun 2015; 6: null)
"Cd5 controls lymphatic vessel development and function by phosphorylation of Focx2."
PubMed Article URL: http://dx.doi.org/10.1038/ncomms8274

Mouse / Not Cited

MF48000 was used in flow cytometry to characterize a Vi-positive S. Typhimurium with the Salmonella pathogenicity island-7

Not Applicable / Not Cited

MF48000 was used in flow cytometry to investigate age- and antigen-specific CD8 T cell responses

Mouse / Not Cited

MF48000 was used in flow cytometry to show that SIRPalpha is highly expressed in human renal cell carcinoma and melanoma

Mouse / Not Cited

MF48000 was used in flow cytometry to define the mechanisms of action of Cdk5 in the vascular system using two endothelial-specific Cdk5 knockout mouse models.

Mouse / Not Cited

MF48000 was used in flow cytometry to elucidate how Schistosoma mansoni suppresses T cell activation

Mouse / Not Cited

MF48000 was used in flow cytometry to study the regulation of CTLA-4+ and CD25+ T cells in schistosomiasis infection

Mouse / Not Cited

MF48000 was used in flow cytometry to define the function of IL-10 during Staphylococcus aureus infection

Mouse / Not Cited

MF48000 was used in flow cytometry to study the mechanism of action of Cdk5 in the vascular system using two endothelial-specific Cdk5 knockout mouse models.

Mouse / Not Cited

MF48000 was used in flow cytometry to characterize a Vi-positive S. Typhimurium with the Salmonella pathogenicity island-7

Mouse / Not Cited

MF48000 was used in flow cytometry to investigate age- and antigen-specific CD8 T cell responses

Mouse / Not Cited

MF48000 was used in flow cytometry to show that TLR4 signals through the BCR leading to activation of SYK, ERK, and AKT as well as through MYD88 leading to activation of NFkappaB

Mouse / Not Cited

MF48000 was used in flow cytometry to elucidate how Schistosoma mansoni suppresses T cell activation

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MF48000 was used in flow cytometry to isolate and characterize "beige" cells from murine white fat depots.

Mouse / Not Cited

"Beige adipocytes are a distinct type of thermogenic fat cell in mouse and human."
PubMed Article URL: http://dx.doi.org/10.1016/j.cell.2012.05.016

Mouse / Not Cited

MF48000 was used in flow cytometry to study cancer-testis antigen expression in a mouse model of prostate cancer

The Prostate (Mar 2017; 77: 361)
"Role of Epigenetic Modification and Immunomodulation in a Murine Prostate Cancer Model."
Author(s): Sulek JE, Robinson SP, Petrossian AA, Zhou S, Goliadze E, Manjil MH, Toor A, Guruli G
PubMed Article URL: http://dx.doi.org/10.1002/pros.23275

Not Applicable / Not Cited

MF48000 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) (Jan 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/10.1049/immunol.176.1.138

Not Applicable / Not Cited

MF48000 was used in flow cytometry to assess the influence of alcohol consumption on antigen-presenting cell populations and cytokine production in type 1 cell-mediated adaptive immune responses

Alcoholism, clinical and experimental research (Oct 2007; 31: 1759)
"Ethanol consumption modifies dendritic cell antigen presentation in mice."
Author(s): Heinz R, Waltonbaugh C
PubMed Article URL: http://dx.doi.org/10.1111/j.1530-0277.2007.00479.x

Not Applicable / Not Cited

MF48000 was used in flow cytometry to explore the ability of FhHDM-1 to modulate macrophage function

Scientific reports (Nov 2016; 6: null)
"A parasite-derived 68-mer peptide ameliorates autoimmune disease in murine models of Type 1 diabetes and multiple sclerosis."
PubMed Article URL: http://dx.doi.org/10.1038/srep37789

Mouse / 1:200

"Atypical chemokine receptor ACKR2 controls branching morphogenesis in the developing mammary gland."
Author(s): Wilson GJ, Hewit KD, Pallas KJ, Cairney CJ, Lee KM, Hansell CA, Stein T, Graham GJ
PubMed Article URL: http://dx.doi.org/10.1242/dev.139733

4 Immunohistochemistry (Frozen) References

Species / Dilution

Summary

MF48000 was used in immunohistochemistry - frozen section to explore the role of mammalian chitinase-like proteins in dermatitis

Experimental dermatology (Oct 2006; 15: 808)
"Expression of chitinase-like proteins in the skin of chronic proliferative dermatitis (cpdm/cpdm) mice."
Author(s): HogenEsch H, Dunham A, Seymour R, Renninger M, Sundberg JP
PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0625.2006.00483.x

MF48000 was used in immunohistochemistry - frozen section to assess the contribution of perforin in parasite control and chronic chagasic cardiomyopathy

International journal of experimental pathology (Feb 2010; 91: 72)
"Perforin-expressing cytotoxic cells contribute to chronic cardiomyopathy in Trypanosoma cruzi infection."
Author(s): Silverio JC, de-Oliveira-Pinto LM, da Silva AA, de Oliveira GM, Lannes-Vieira J
PubMed Article URL: http://dx.doi.org/10.1111/j.1365-2613.2009.00670.x

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MF48000 was used in immunohistochemistry - frozen section to elucidate the mechanisms that regulate the inverse relationship between helminth infections and allergies
MF48000 was used in immunohistochemistry - frozen section to test if mechanical strain contributes to the proinflammatory responses in intestinal smooth muscle cells or macrophages

Mouse / 1:200
American journal of physiology. Gastrointestinal and liver physiology (Nov 2010; 299: G1187) "Mechanical strain and TLR4 synergistically induce cell-specific inflammatory gene expression in intestinal smooth muscle cells and peritoneal macrophages."
Author(s):Wehner S,Buchholz BM,Schuchtrup S,Robak A,Schaefer N,Lysson M,Hirner A,Kalff JC
PubMed Article URL:http://dx.doi.org/10.1152/ajpgi.00452.2009

Mouse / 1:500
PubMed Article URL:http://dx.doi.org/10.1038/nm.3952

Mouse / Not Cited
The Journal of experimental medicine (Jun 2000; 191: 2145) "Downmodulation of the inflammatory response to bacterial infection by gammadelta T cells cytotoxic for activated macrophages."
Author(s):Egan PJ,Carding SR
PubMed Article URL:http://dx.doi.org/10.1084/jem.191.12.2145

Mouse / 1:20
Nature medicine (Apr 2013; 19: 421) "Preventive and therapeutic effects of Smad7 on radiation-induced oral mucositis."
PubMed Article URL:http://dx.doi.org/10.1038/nm.3118

Mouse / Not Cited
Cellular immunology (Sep 2009; 259: 66) "Resistance and augmentation of innate immunity in mice exposed to starvation."
Author(s):Shen J,Ren H,Tomiya-Miyaji C,Watanabe M,Kainuma E,Inoue M,Kuwano Y,Abo T
PubMed Article URL:http://dx.doi.org/10.1016/j.cellimm.2009.05.015

Mouse / Not Cited
Molecular and cellular biology (Dec 2003; 23: 9150) "Generation and analysis of Siah2 mutant mice."
Author(s):Frew IJ,Hammond VE,Dickins RA,Quinn JM,Walker CR,Sirks NA,Schnall R,Della NG,Holloway AJ,Digby MR,James PW,Tarlington DM,Periton LE,Gillespie MT,Bowtell DD


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thermofisher.com/contactus
MF48000 was used in flow cytometry to report that beta-CN peptide enhances antimicrobial activity of macrophages without proinflammatory effects.

Mouse / Not Cited
The Journal of nutrition (Nov 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."
PubMed Article URL:http://dx.doi.org/10.1093/jn/131.11.2936

Mouse / Not Cited
MF48000 was used in flow cytometry to characterize different populations of mouse lymph node dendritic cells.

Mouse / Not Cited
"Three populations of mouse lymph node dendritic cells with different origins and dynamics."
Author(s):Salomon B,Cohen JL,Masurier C,Klatzmann D
PubMed Article URL:http://dx.doi.org/null

Mouse / Not Cited
MF48000 was used in flow cytometry to investigate DCs in non-obese diabetic mice.

Mouse / Not Cited
Journal of immunology (Baltimore, Md. : 1950) (Sep 2012; 189: 2909)
"CD28 promotes CD4+ T cell clonal expansion during infection independently of its YMN and PYAP motifs."
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