

Monoclonal Antibody to Macrophage F4/80 antigen - PE

Alternate names:	Cell surface glycoprotein EMR1, EMR1 hormone receptor, Emr1, Gpf480
Catalog No.:	BM4008R
Quantity:	100 Tests
Background:	Murine F4/80 antigen is a 160 kD cell surface glycoprotein that is a member of the EGF-TM7 family of proteins which 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.
Uniprot ID:	Q61549
NCBI:	NP_034260
GeneID:	13733
Host / Isotype:	Rat / IgG2b
Clone:	Cl:A3-1
Immunogen:	Thioglycollate stimulated peritoneal cavity macrophages from C57/BL mice. Remarks: Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS-1 mouse myeloma cell line.
Format:	State: Lyophilized purified Ig fraction Purification: Affinity Chromatography on Protein A Buffer System: PBS, pH 7.4 Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA, 5% Sucrose Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 1 ml distilled water.
Applications:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. Immunofluorescence. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the F4/80 antigen. Clone Cl:A3-1 has been reported to modulate cytokine levels released in response to

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Listeria monocytogenes (5). We recommend the use of *Cat.-No* BM4008LE for this purpose.

Species Reactivity: **Tested:** Mouse.

Storage: Prior to reconstitution and following reconstitution store at 2-8°C.
DO NOT FREEZE!
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

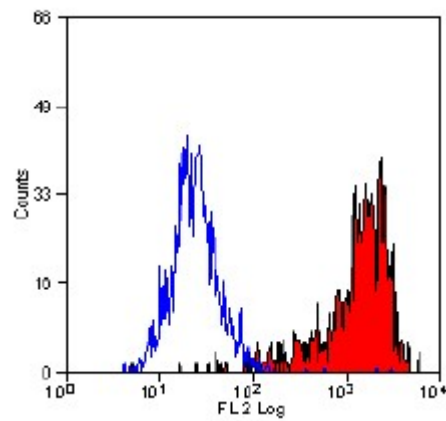
- General References:**
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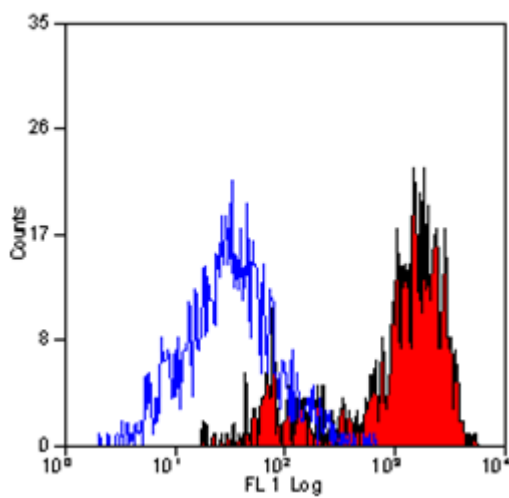
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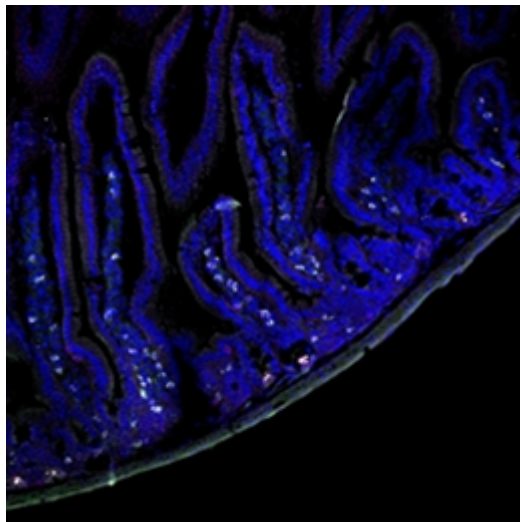
Pictures:



Flow Cytometry: Staining of Mouse J774 cells with RPE conjugated Rat Anti Mouse F4/80 Antigen (BM4008R).



Staining of mouse peritoneal macrophages with Rat anti Mouse F4/80 antigen (BM4008R)

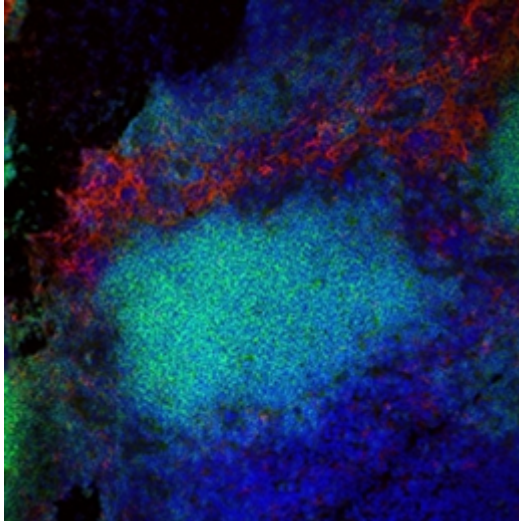


Immunofluorescence image of mouse small intestine stained with Rat anti Mouse F4/80 (BM4008R), red and Rat anti Mouse CD45, green; nuclei are stained with DAPI, blue. The image highlights macrophages within the lamina propria

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Immunofluorescence image of lymph node stained for macrophages (BM4008R), red and B cells CD79b, green; nuclei are stained with DAPI, blue

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