

## Product datasheet for **BM4008BX**

### Adgre1 Rat Monoclonal Antibody [Clone ID: Cl:A3-1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Cl:A3-1
Applications:	FC, IF, IHC, WB
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of 1/10-1/50 diluted antibody to stain 10e6 cells in 100 µl.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Thioglycollate stimulated peritoneal macrophages from C57/BL mice. Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.
Specificity:	This antibody recognizes the Murine F4/80 antigen, a 160 kD cell surface glycoprotein. Clone Cl:A3-1 has been reported to modulate cytokine levels released in response to Listeria monocytogenes (Ref.5).
Formulation:	PBS, pH 7.4 containing 1% BSA as stabilizer and 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	adhesion G protein-coupled receptor E1
Database Link:	<a href="#">Entrez Gene 13733 Mouse Q61549</a>



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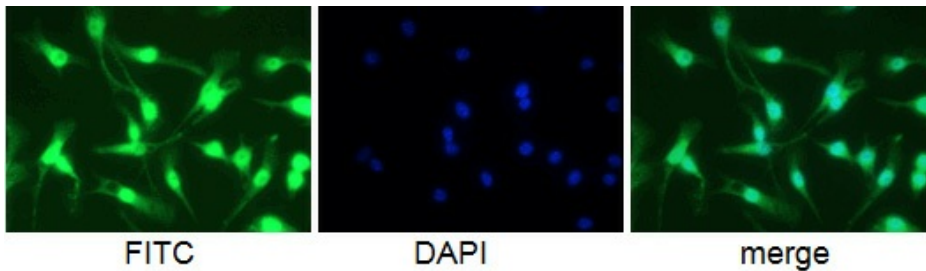
**Background:**

F4/80 antigen is a member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucinlike 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.

**Synonyms:**

Emr1, Gpf480

**Product images:**

Mouse anti-Macrophage F4/80 antigen antibody (5 ug/ml) on Raw 204.4 cells. Cells were fixed in 1% PFA, permeabilized in 0.25% Triton X 100 in 1% PFA, blocked in 1% BSA in PBS.

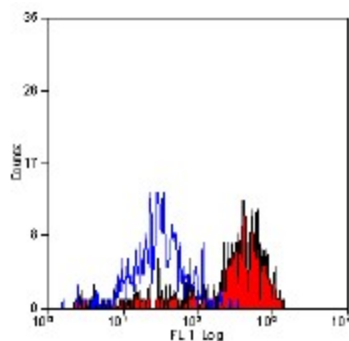
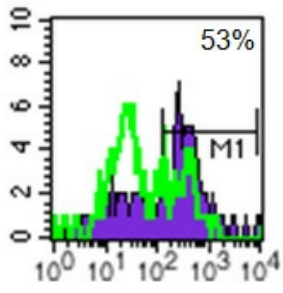
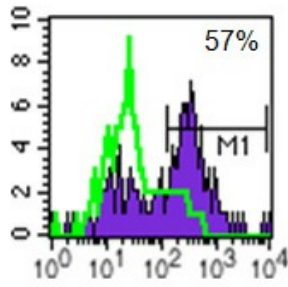


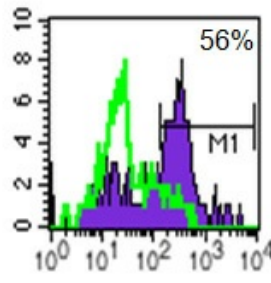
Figure 1. Staining of Mouse peritoneal macrophages with Rat Anti-Mouse F4/80 Antigen - Biotin.



2.5ug/ml  
(0.25ug/10<sup>6</sup> cells)



1.25ug/ml  
(0.125ug/10<sup>6</sup> cells)



0.625ug/ml  
(0.0625ug/10<sup>6</sup> cells)

Mouse anti-Macrophage F4/80 antigen antibody on thioglycollate elicited mouse peritoneal macrophages. Purple: ; Green: Isotype control SM19FS; Percentages reflect % positive after subtraction of negative control, using M1 marker.