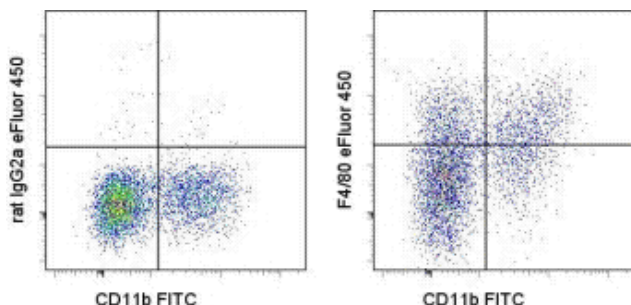


## Anti-Mouse F4/80 Antigen eFluor® 450

**Catalog Number:** 48-4801

**Also Known As:** Pan Macrophage Marker

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of C57BL/6 bone marrow cells with Anti-Mouse CD11b FITC (cat. 11-0112) and 0.25 ug of Rat IgG2a K Isotype Control eFluor® 450 (cat. 48-4321) (left) or 0.25 ug of Anti-Mouse F4/80 Antigen eFluor® 450 (right). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse F4/80 Antigen eFluor® 450

**REF** **Catalog Number:** 48-4801

**Clone:** BM8

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial



**Contains sodium azide**

### Description

The BM8 monoclonal antibody reacts with mouse F4/80 antigen, an approximately 125 kDa transmembrane protein. The F4/80 antigen is expressed by a majority of mature macrophages and is the best marker for this population of cells. However, other cell types such as Langerhans cells and liver Kupffer cells have been reported to express this antigen. Expression of F4/80 commences during early myeloid development and is upregulated on all BM cells stimulated *in vitro* with M-CSF. It has been shown that some cytokines downregulate the expression of F4/80 resulting in lack of F4/80 antigen on a subpopulation of macrophages, especially in the lymphoid microenvironment *in vivo*.

### Applications Reported

This BM8 antibody has been reported for use in flow cytometric analysis.

**eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser. Please make sure that your instrument is capable of detecting this fluorochoime.**

### Applications Tested

This BM8 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**eFluor™ 450 is a replacement for Pacific Blue®. eFluor™ 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.**

### References

Geutskens SB, Otonkoski T, Pulkkinen MA, Drexhage HA, Leenen PJ. Macrophages in the murine pancreas and their involvement in fetal endocrine development *in vitro*. *J Leukoc Biol.* 2005 Oct;78(4):845-52. (IHC frozen, PubMed)

Torzewski M, Shaw PX, Han KR, Shortal B, Lackner KJ, Witztum JL, Palinski W, Tsimikas S. Reduced *in vivo* aortic uptake of radiolabeled oxidation-specific antibodies reflects changes in plaque composition consistent with plaque stabilization. *Arterioscler Thromb Vasc Biol.* 2004 Dec;24(12):2307-12. (IHC paraffin, PubMed)

Schaller E, Macfarlane AJ, Rupec RA, Gordon S, McKnight AJ, Pfeffer K. Inactivation of the F4/80 glycoprotein in the mouse germ line. *Mol Cell Biol.* 2002. 22(22):8035-43.

Mackler AM, Green LM, McMillan PJ, Yellon SM. Distribution and activation of uterine mononuclear phagocytes in peripartum endometrium and myometrium of the mouse. *Biol Reprod.* 2000 May;62(5):1193-200. (IHC paraffin, PubMed)

Murayama T, Yokode M, Kataoka H, Imabayashi T, Yoshida H, Sano H, Nishikawa S, Nishikawa S, Kita T. Intraperitoneal administration of anti-c-fms monoclonal antibody prevents initial events of atherogenesis but does not reduce the size of advanced lesions in apolipoprotein E-deficient mice. *Circulation*. 1999 Apr 6;99(13):1740-6. (IHC frozen, PubMed)

Leenen PJ, de Bruijn MF, Voerman JS, Campbell PA, van Ewijk W. Markers of mouse macrophage development detected by monoclonal antibodies. *J Immunol Methods*. 1994. 174(1-2):5-19.

Zwadlo G, Brocker EB, von Bassewitz DB, Feige U, Sorg C. A monoclonal antibody to a differentiation antigen present on mature human macrophages and absent from monocytes. *J Immunol*. 1985. 134(3):1487-92

#### **Related Products**

11-0112 Anti-Mouse CD11b FITC (M1/70)

48-4321 Rat IgG2a K Isotype Control eFluor® 450 (eBR2a)

---

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.eBioscience.com](http://www.eBioscience.com) • [info@eBioscience.com](mailto:info@eBioscience.com)