biogems
Creating Value for Life Science Research

Technical Data Sheet

# Anti-MouseF4/80 Antigen FITC

Catalogue Number : 02922-50

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

## Product Information

**Clone:** BM8.1
**Format/Conjugate:** FITC
**Concentration:** 0.5 mg/mL
**Reactivity:** Mouse
**Laser:** Blue (488nm)
**Peak Emission:** 520nm
**Peak Excitation:** 494nm
**Filter:** 530/30
**Brightness (1=dim,5=brightest):** 3
**Isotype:** Rat IgG2a, kappa
**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.
**Applications:** FC

## Description

The BM8.1 monoclonal antibody specifically binds to the Mouse125 kDa F4/80 antigen, expressed by most mature macrophages. F4/80 is a transmembrane protein used as a marker of macrophages, although it is also expressed on Kupffer and Langerhans cells. The expression of F4/80 antigen is upregulated on bone marrow cells stimulated in vitro with the macrophage colony stimulating factor. The F4/80 antigen is a requirement for the induction of CD8 T cells-mediated peripheral tolerance.

## Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

## Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

## References

1.Zwadlo, G., Bröcker, E. B., Von Bassewitz, D. B., Feige, U., ; Sorg, C. (1985). A monoclonal antibody to a differentiation antigen present on mature human macrophages and absent from monocytes.;The Journal of Immunology,;134(3), 1487-1492.

2. Leenen, P. J., de Bruijn, M. F., Voerman, J. S., Campbell, P. A., ; van Ewijk, W. (1994). Markers of mouse macrophage development detected by monoclonal antibodies.;Journal of immunological methods,;174(1), 5-19.

3. Schaller, E., Macfarlane, A. J., Rupec, R. A., Gordon, S., McKnight, A. J., ; Pfeffer, K. (2002). Inactivation of the F4/80 glycoprotein in the mouse germ line.Molecular and cellular biology,;22(22), 8035-8043.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316

Not for further distribution without written consent. Copyright © 2014 BioGems, Inc.