

## Anti-MouseF4/80 Antigen PE

Catalogue Number : 02922-60

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

### Product Information

**Clone:** BM8.1

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**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 Mouse 125 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., Br&ouml;cker, 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.