

Anti-Mouse F4/80 Antigen BG Violet 450

Catalogue Number : 02922-40

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

Product Information

Clone: BM8.1

Format/Conjugate: BG Violet 450

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Violet (405nm)

Peak Emission: nm

Peak Excitation: nm

Filter:

Brightness (1=dim,5=brightest):

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.

BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.

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 ≤0.5 µg 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.