Revision 1

#19233 Store at +4C

F4/80 (BM8.1) Rat mAb (APC-Cy7® Conjugate)

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-L	M	Endogenous	Rat IgG2b kappa	#Q61549	13733

Product Usage Information

For optimal flow cytometry results, we recommend 0.25µg of antibody per test.

Application	Dilution
Flow Cytometry (Live)	1:80

Storage

Supplied in 10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, 0.1% gelatin, pH7.2. This product is stable for 6 months when stored at 4ºC. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity / Sensitivity

F4/80 (BM8.1) Rat mAb (APC-Cy7® Conjugate) recognizes endogenous levels of total F4/80 protein. This antibody detects an epitope within the extracellular domain.

Source / Purification

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

Product Description

This Cell Signaling Technology antibody is conjugated to APC-Cy7® and tested in-house for direct flow cytometric analysis in mouse cells.

Background

F4/80 (EMR1) is a heavily glycosylated G-protein-coupled receptor and is a well-established marker for mouse macrophages (1-3). Expression of F4/80 has also been observed in microglia and subset populations of dendritic cells (4).
BM8.1 is widely used together with antibodies to CD115 (c-Fms), CD11b, and CD11c to identify myeloid/macrophage cells by flow cytometry.

Background References

1. Hirsch, S. et al. (1981) *J Exp Med* 154, 713-25.
2. Austyn, J.M. and Gordon, S. (1981) *Eur J Immunol* 11, 805-15.
3. McKnight, A.J. et al. (1996) *J Biol Chem* 271, 486-9.
4. Greter, M. et al. (2015) *Front Immunol* 6, 249.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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