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## F4/80 (BM8.1) Rat mAb (APC-Cy7<sup>®</sup> Conjugate)

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

<b>Applications:</b> FC-L	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rat IgG2b kappa	<b>UniProt ID:</b> #Q61549	<b>Entrez-Gene Id:</b> 13733
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### Product Usage Information

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

#### Application

Flow Cytometry (Live)

#### Dilution

1:80

### Storage

Supplied in 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2. This product is stable for 6 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

### Specificity/Sensitivity

F4/80 (BM8.1) Rat mAb (APC-Cy7<sup>®</sup> 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.

### Description

This Cell Signaling Technology antibody is conjugated to APC-Cy7<sup>®</sup> 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

**M:** Mouse

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