

F4/80 (BM8.1) Rat mAb (redFluor™ 710 Conjugate)

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP, FC-L	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rat IgG2b kappa	UniProt ID: #Q61549	Entrez-Gene Id: 13733
Product Usage Information		For optimal flow cytometry results, we recommend 0.25µg of antibody per test.			
		Application	Dilution		
		Flow Cytometry (Fixed/Permeabilized)	1:80		
		Flow Cytometry (Live)	1:80		
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 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 (redFluor™ 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 redFluor™ 710 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) <i>J Exp Med</i> 154, 713-25. 2. Austyn, J.M. and Gordon, S. (1981) <i>Eur J Immunol</i> 11, 805-15. 3. McKnight, A.J. et al. (1996) <i>J Biol Chem</i> 271, 486-9. 4. Greter, M. et al. (2015) <i>Front Immunol</i> 6, 249.			

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)
Cross-Reactivity Key	M: Mouse
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