Anti-Mouse F4/80 Antibody, Clone BM8, FITC

**Antibodies**

Rat monoclonal IgG2a antibody against human, mouse F4/80, FITC-conjugated

<table>
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<tr>
<th>Catalog #</th>
<th>Concentration</th>
<th>500 μg</th>
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<td>0.5 mg/mL</td>
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<tr>
<td>#60027F1.1</td>
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**Product Description**

The BM8 antibody reacts with the F4/80 antigen (also termed Ly-71 in mouse and EMR-1 in human), an ~160 kDa transmembrane glycoprotein belonging to the EGF-TM7 family of G-protein-coupled receptors. F4/80 is considered a marker of choice for the identification of mature tissue macrophages, being broadly but variably expressed by this cell type in the liver (Kupffer cells), skin (Langerhans cells), bone marrow stroma, pancreas, thymus, spleen (red pulp), lung, and other tissues. It is also expressed by circulating monocytes, eosinophils and a subset of dendritic cells. F4/80 expression levels increase following activation of macrophages. F4/80 is reportedly the only macrophage marker suitable for distinguishing destructive from non-destructive inflammatory processes in the pancreas. The protein is thought to play a role in the generation of CD8+ regulatory T cells involved in immune tolerance.

**Target Antigen Name:** F4/80  
**Alternative Names:** EMR1, Ly71  
**Gene ID:** 13733  
**Species Reactivity:** Human, Mouse  
**Host Species:** Rat  
**Clonality:** Monoclonal  
**Clone:** BM8  
**Isotype:** IgG2a, kappa  
**Immunogen:** Murine (BALB/c) macrophages obtained from 14-day-old bone marrow cell cultures  
**Conjugate:** FITC

**Applications**

**Verified:** FC  
**Reported:** FC, ICC, IF, IHC, WB  
**Special Applications:** This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Monocyte Enrichment Kit (Catalog #19761) and EasySep™ Mouse CD11b Positive Selection Kit (Catalog #18770).

**Properties**

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide  
**Purification:** The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.  
**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.  
**Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.25 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Antibodies

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Data

(A) Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Anti-Mouse F4/80 Antibody, Clone BM8, FITC and Anti-Mouse CD45R Antibody, Clone RA3-6B2, PE (Catalog #60019PE).

(B) Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Rat IgG2a, kappa Isotype Control Antibody, Clone RTK2758, FITC (Catalog #60076FI) and Anti-Mouse CD45R Antibody, Clone RA3-6B2, PE.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References