PE Rat Anti-Mouse F4/80

Product Information

Material Number: 565410
Alternate Name: Gp480; F480; Emr1; Ly71; DD7A5-7; EGF-TM7; TM7LN3
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: T45-2342
Immunogen: Mouse F4/80 Recombinant Protein
Isotype: Rat (W1) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The T45-2342 monoclonal antibody recognizes the mouse F4/80 antigen which is also known as EGF-like module-containing mucin-like hormone receptor-like 1 (EMR1). F4/80 is a 160 kDa glycoprotein that belongs to the EGF-TM7 family of seven-transmembrane spanning cell surface molecules. It is expressed on the surface of granulocytes and a wide range of mature tissue macrophages including, Kupffer cells, splenic red pulp macrophages, microglia, gut lamina propria macrophages, and Langerhans cells. F4/80 expression has also been reported on subpopulations of dendritic cells. F4/80 expression is heterogeneous and may be increased during inflammatory responses as observed in various mouse models of colitis, diabetes and brain injury.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Flow cytometry Routinely Tested

Two-color flow cytometric analysis of F4/80 expression on mouse splenic leukocytes. C57BL/6 mouse splenic leukocytes were preincubated with Purified Rat Anti-Mouse CD16/CD32 antibody (Mouse BD Fc Block™) (Cat. No. 553141/553142). The cells were then stained with Alexa Fluor® 647 Rat Anti-Mouse CD11b (Cat. No. 557686) and either PE Rat IgG2a Isotype Control (Cat. No. 553930; Left Panel) or PE Rat Anti-Mouse F4/80 antibody (Cat. No. 565410; Right Panel). The two-color flow cytometric contour plot showing the correlated expression of F4/80 (or Ig Isotype control staining) versus CD11b was derived from gated events with the forward and side light-scatter characteristics of viable monocytes. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.
Suggested Companion Products

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<th>Name</th>
<th>Size</th>
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<td>Stain Buffer (FBS)</td>
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<td>554657</td>
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<td>557686</td>
<td>Alexa Fluor® 647 Rat Anti-Mouse CD11b</td>
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<td>Lysing Buffer</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. An isotype control should be used at the same concentration as the antibody of interest.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.

References


