

**DESCRIPTION**

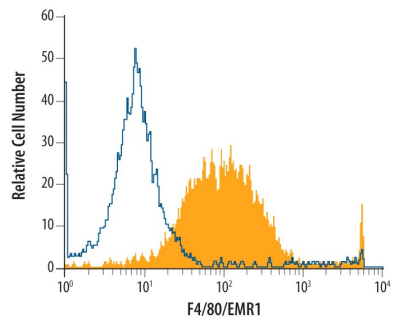
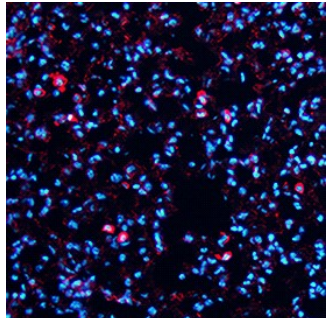
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse F4/80/EMR1.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 521204
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with mouse F4/80/EMR1 Gln28-Gly931 Accession # Q61549
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	Immersion fixed RAW 264.7 mouse monocyte/macrophage cell line
<b>Immunohistochemistry</b>	5-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Flow Cytometry</b></p>  <p><b>Detection of F4/80/EMR1 in RAW 264.7 Mouse Cell Line by Flow Cytometry.</b> RAW 264.7 mouse monocyte/macrophage cell line was stained with Rat Anti-Mouse F4/80/EMR1 Monoclonal Antibody (Catalog # MAB5580, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG F(ab)<sub>2</sub> Secondary Antibody (Catalog # F0113).</p>	<p><b>Immunohistochemistry</b></p>  <p><b>F4/80 in Mouse Lung.</b> F4/80 was detected in immersion fixed frozen sections of mouse lung using Rat Anti-Mouse F4/80 Monoclonal Antibody (Catalog # MAB5580) at 15 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm in macrophages. View our protocol for <a href="#">Fluorescent IHC Staining of Frozen Tissue Sections</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

F4/80, also known as EMR1, is a 160 kDa extensively glycosylated protein in the EGF-TM7 family of adhesion molecules. It is primarily expressed on macrophages and dendritic cells in mouse but is restricted to eosinophils in human. F4/80 plays a role in the development of peripheral tolerance.