Mouse F4/80 Antibody

Monoclonal Rat IgG_{2A} Clone # 521204

Catalog Number: MAB5580

DESCRIPTION

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

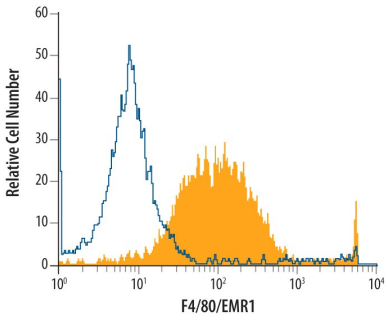
APPLICATIONS

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.*

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

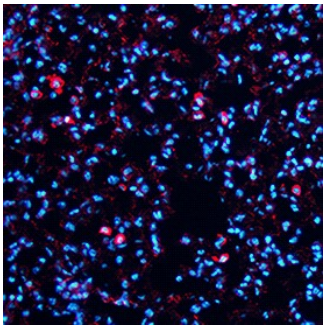
DATA

Flow Cytometry



Detection of F4/80/EMR1 in RAW 264.7 Mouse Cell Line by Flow Cytometry. 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 $F(ab')_2$ Secondary Antibody (Catalog # F0113).

Immunohistochemistry



F4/80 in Mouse Lung. 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 Fluorescent IHC Staining of Frozen Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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