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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-502-L55

F4/80 Fluorescein Antibody

Overview

Description:	Anti-F4/80 (RAT) Fluorescein Conjugated Monoclonal Antibody - 200-502-L55
Item No.:	200-502-L55
Size:	500 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	The BM8.1 antibody is specific for mouse F4/80 antigen, a 125 kDa transmembrane protein widely expressed by members of the mononuclear phagocyte system and considered to be a key marker for mature macrophage cells. F4/80 is differentially expressed during myeloid cell development, and may be regulated by certain cytokines within the tissue microenvironment. Other cell types shown to express this antigen include Langerhans cells, Kupffer cells and dendritic cell subsets. BM8.1 is widely used together with antibodies to CD115 (c-fms), CD11b and CD11c to identify myeloid / macrophage cells by flow cytometry.
Synonyms:	EMR1, Ly71, EGF-TM7, Adhesion G protein-coupled receptor E1, Cell surface glycoprotein F4/80, EGF-like module receptor 1, EGF-like module-containing mucin-like hormone receptor-like 1, EMR1 hormone receptor, Gpf480, Adgre1
Host Species:	Rat
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	BM8.1
Format:	IgG2a
F/P Ratio:	2-8

Target Details

Gene Name:	Adgre1

Reactivity:	Mouse
Immunogen:	Anti-F4/80 Antibody (Monoclonal) was produced by repeated immunizations with F4/80 antigen.
Purity/Specificity:	Fluorescein conjugated F4/80 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse F4/F80. Cross reactivity with F4/F80 from other sources has not been tested. Anti-F4/F80 is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - Q61549 • NCBI - NP_034260.1 • GeneID - 13733

Application Details

Tested Applications:	FC
Application Note:	Anti-F4/80 is tested for Flow Cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 µL/10^6 cells (0.1 µg)

Formulation

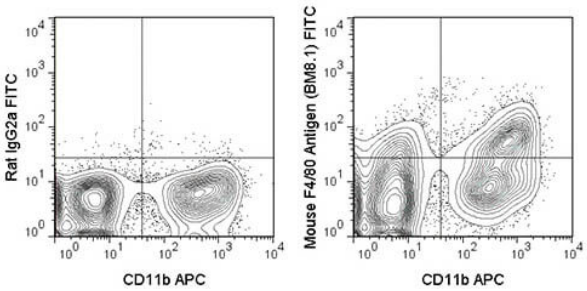
Physical State:	Liquid (sterile filtered)
Concentration:	0.5mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.

Expiration: Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of anti-F4/80 Fluorescein Conjugated Monoclonal Antibody. Cells: C57BL/6 bone marrow. Stimulation: none. Antibody: CD11b APC with Rat IgG2a isotype control 0.25µg (left panel); and Fluorescein Anti-F4/80 antibody 0.25µg (right panel).

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