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PE/Cyanine7 Anti-Mouse CD206/MMR Antibody[C068C2]

Catalog Number: E-AB-F1135UH

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ
Clone No. C068C2

Isotype Control PE/Cyanine7 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

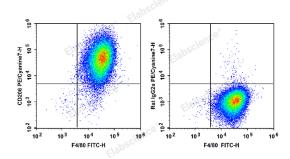
FCM Each lot of this antibody is quality control tested by flow cytometric analysis. Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the

reagent to obtain optimal results [The recommended concentration is 0.1-1 μ g/10⁶ cells in 400 kH column 1

in 100 µL volume].

Data



C57BL/6 murine abdominal macrophages elicited by starch broth are stained with FITC Anti-Mouse F4/80 Antibody and PE/Cyanine7 Anti-Mouse CD206 Antibody (Left). Abdominal macrophages are stained with FITC Anti-Mouse F4/80 Antibody and PE/Cyanine7 Rat IgG2a, κ Isotype Control (Right).

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

Rev. V1.8

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names MMR;MRC1;macrophage mannose receptor;mannose receptor

For Research Use Only

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Uniprot ID Gene ID Background

Q61830 17533

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CD206, also known as mannose receptor (MR), is a 175 kD type I membrane protein. It is a pattern recognition receptor (PRR) belonging to the C-type lectin superfamily. MR is expressed on macrophages, dendritic cells, Langerhans cells, and hepatic or lymphatic endothelial cells. MR recognizes a range of microbial carbohydrates bearing mannose, fucose, or N-acetyl glucosamine through its C-type lectin-like carbohydrate recognition domains, sulfated carbohydrate antigens through its cysteine-rich domain, and collagens through its fibronectin type II domain. MR mediates endocytosis and phagocytosis as well as activation of macrophages and antigen presentation. It plays an important role in host defense and provides a link between innate and adaptive immunity. Recently, MR on lymphatic endothelial cells was found to be involved in leukocyte trafficking and a contributor to the metastatic behavior of cancer cells. It suggests that MR may be a potential target in controlling inflammation and cancer metastasis by targeting the lymphatic vasculature.