

ORDERING INFORMATION

Catalog Number: MAB3818

Clone: 460615

Lot Number: CAQZ02

Size: 100 μg

Formulation: 0.2 µm filtered solution in PBS

with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse M-CSF R

Immunogen: NS0-derived rmM-CSF R

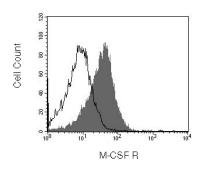
Ig class: rat IgG₂₈

Recommended Application:

Flow cytometry

Other Application:

Direct ELISA



Raw264 cells were stained with anti-M-CSF R (Catalog # MAB3818, clone 460615, filled histogram) or isotype control (Catalog # MAB0061, open histogram) followed by APC-conjugated anti-rat antibody (Catalog # F0113).

Monoclonal Anti-mouse M-CSF R Antibody

Background

M-CSF R (macrophage colony stimulating factor receptor, *c-fms*) is a 165 kDa, 977 amino acid (aa) type I membrane glycoprotein. It is a member of the type III subfamily of receptor tyrosine kinases that contain five extracellular immunoglobulin-like domains and a cytosolic split kinase domain. M-CSF receptor is expressed primarily on monocytes, macrophages, dendritic cells, and stem cells, and regulates lineage decisions and maturation of these cells. The mouse M-CSF R extracellular domain shares > 99% aa identity with rat and 60 - 63% aa identity with human, dog, cat and cow M-CSF R. It can be released by TACE/ADAM17 cleavage.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified NS0-derived recombinant mouse M-CSF R (rmM-CSF R; aa 20 - 511; Accession # P09581). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

Formulation

Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 μ g/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Specificity

This antibody detects rmM-CSF R in direct ELISAs. In this format, this antibody does not cross-react with rhM-CF R, rmPDGF R β , or rmFlt-3 Ligand.

Application

Flow cytometry - This antibody was tested for flow cytometry using Raw264 cells. Dilute this antibody to 25 μ g/mL and add 10 μ L of the diluted solution to 1 - 2.5 x 10 cells in a total reaction volume not exceeding 200 μ L. The binding of unlabeled monoclonal antibodies may be visualized by adding a secondary developing reagent such as anti-rat IgG conjugated to a fluorochrome.

Direct ELISA - This antibody can be used at 0.5 - $1.0~\mu g/mL$ with the appropriate secondary reagents to detect mouse M-CSF R. The detection limit for rmM-CSF R is approximately 3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.