Monoclonal Anti-human M-CSF Antibody

ORDERING INFORMATION

Catalog Number: MAB2161

Clone: 26786

Lot Number: FNG01

Size: 500 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human M-CSF

Immunogen: *E. coli*-derived rhM-CSF

Ig class: mouse IgG_{2A}

Application: Flow Cytometry

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant human macrophage colony stimulating factor (rhM-CSF). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. M-CSF, also known as CSF-1, is produced by a variety of cell types in either a membrane-anchored or secreted soluble form. It is a glycosylated, disulfide-linked homodimer that binds to the M-CSF receptor expressed by cells of the monocyte-macrophage lineage.

Formulation

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

Endotoxin Level

< 0.1 EU per 1 μg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 500 μg/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 was selected for its ability to detect human M-CSF in flow cytometry.

Application

Flow Cytometry - For intracellular staining to detect human M-CSF, cells must first be fixed and permeabilized using 4% paraformaldehyde and 0.1% saponin. Dilute this antibody to 25 μg/mL and add 10 μL of the diluted solution to 1 - 5 x 10^5 cells in a total reaction volume not exceeding 200 mL. Following a 30 minute incubation, cell should be washed with 0.1% saponin prior to adding 10 μL of a 25 μg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgG conjugated to a fluorochrome. Cells should be washed for a final time in 0.1% saponin prior to flow cytometric analysis. For a detailed protocol, consult R&D Systems' Catalog # IC2161P at **www.RnDSystems.com**.

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

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