

Monoclonal Anti-CD38 Antibody, Mouse IgG1 (4B8)

Catalog # CD8-MY2555G0



Source

Monoclonal Anti-CD38 Antibody, Mouse IgG1 (4B8) is recombinantly expressed from human 293 cells (HEK293), which provides higher batch consistency and long term security of supply.

Antibody Type

Recombinant Monoclonal

Clone

4B8

Isotype

Mouse IgG1, Kappa

Host Species

Mouse

Reactivity

Human

Immunogen

Recombinant Human CD38 is expressed from human 293 cells

Specificity

Specifically recognizes Human CD38 Protein.

Application

Flow Cytometry (Evaluation of the expression of CD38 on Human cells).

Form

Lyophilized

Formulation

Lyophilized from a 0.22 µm-filtered solution in PBS (pH 7.4) containing 0.02% Tween 80, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

Shipping

Lyophilized product is shipped at ambient temperature.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

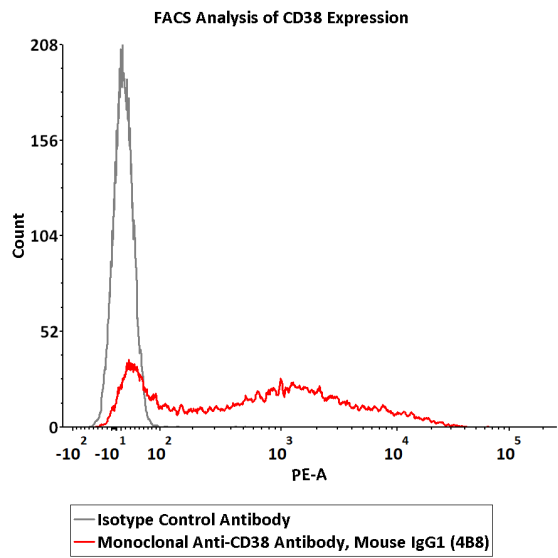
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

Activity-Flow Cytometry



Flow cytometric analysis of human peripheral blood lymphocytes stained with Monoclonal Anti-CD38 Antibody, Mouse IgG1 (4B8) (Cat. No. CD8-MY2555G0) at 1 ug/mL (0.1 ug was used to stain 1×10^6 cells in a final volume of 100 μ L) and isotype control respectively, washed and then followed by PE anti-mouse IgG1 Antibody. PE fluorescence was used to evaluate the binding activity (QC tested).

Background

CD antigen CD38 is also known as ADP-ribosyl cyclase 1, which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca²⁺. The loss of CD38 function is associated with impaired immune responses, metabolic disturbances, and behavioral modifications. The CD38 protein is a marker of cell activation. It has been connected to HIV infection, leukemias, myelomas, solid tumors, type II diabetes mellitus and bone metabolism. CD38 has been used as a prognostic marker in leukemia.



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