

Anti-Mouse CD38-171Yb

Catalog #: 3171007B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Mouse

Clone: 90

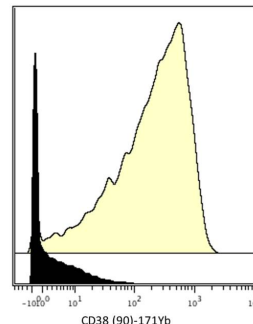
Isotype: Rat IgG2a

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



C57BL/6 mouse bone marrow cells stained with 171Yb-anti-CD38 (90). B lymphocytes (top) and granulocytes (bottom) are displayed in the analysis.

Description

CD38, also known as T10, is a transmembrane glycoprotein. It is expressed at variable levels across most hematopoietic cells and in other tissues (i.e. Brain, muscle, kidney). In the mouse, CD38 expression is downregulated on mouse germinal center B cells and plasma cells, whereas this is not the case for humans. CD38 mediates adhesion as well as lymphocyte activation. CD31 is the ligand of CD38.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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