

Anti-Human CX3CR1-172Yb

Catalog #: 3172017B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: 2A9-1

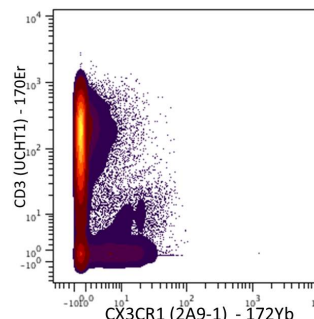
Isotype: Rat IgG2b

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.



Human PBMCs stained with 170Er-anti-CD3 (UCHT1) and 172Yb-anti-CX3CR1 (2A9-1). CD45+CD11c- are displayed in the analysis.

Description

CX3CR1, also known as GPR13, is the receptor for Fractalkine, a transmembrane chemokine. CX3CR1 is expressed on NK cells, some T cells, monocytes/macrophages, dendritic cells and some epithelial cells. Expression of the chemokine receptor CX3CR1 is a hallmark of committed macrophage/dendritic cell precursors (MDPs) and variable expression of CX3CR1 has recently been used to identify distinct populations within the monocyte, macrophage and dendritic cell lineages. Accumulating evidence indicates that CX3CR1-positive myeloid cells play an important role in a wide range of immunological maladies including colitis, burn healing, pulmonary vaccinia infection, central nervous system injury, liver fibrosis, ovarian cancer, diabetes and obesity.

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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