

Anti-Human CD200 (OX2)-149Sm

Catalog #: 3149007B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: OX-104

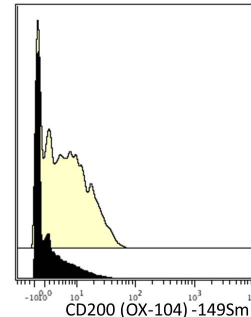
Isotype: Mouse IgG1

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 149Sm-anti-CD200 (OX-104). B cells (top) and T cells (bottom) are displayed in the analysis.

Description

CD200, also known as OX2, is a type-1a transmembrane cell-surface glycoprotein, and a member of the immunoglobulin superfamily. CD200 is expressed in tissues of the central nervous system, testis, in addition to leukocytes including T and B lymphocytes. In the immune system, CD200 plays a role in promoting peripheral tolerance and protecting immune-privileged sites. CD200 induces immunosuppression through engagement with CD200R (OX2R), which is expressed on leukocytes of myeloid lineage, including mast cells, macrophages, basophils, dendritic cells and some T cell populations. Increased CD200 expression has also been associated with an increased frequency of regulatory T (Treg) cells in patients with acute myeloid leukemia (AML).

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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