

Anti-Human CD19-142Nd

Catalog: 3142001B

Package Size: 100 tests

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

Reactivity: Rhesus, Chimpanzee, Olive Baboon, Pigtailed Macaque,

Clone: HIB19

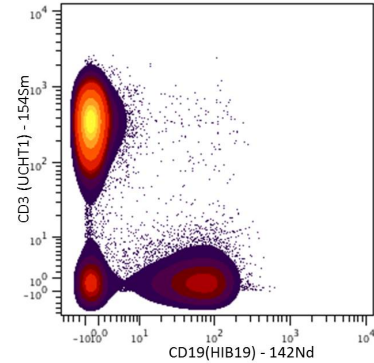
Isotype: IgG1

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 μ l for up to 3×10^6 live cells in 100 μ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with ¹⁵⁴Sm-anti-CD3 (UCHT1) and ¹⁴²Nd-anti-CD19 (HIB19). CD45⁺ CD33⁻ cells are displayed in the analysis.

Description

CD19, also known as B4, is a type I transmembrane glycoprotein that is a member of the immunoglobulin superfamily. CD19 is expressed on B-cells, B-cell progenitors and follicular dendritic cells. It primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Src-family kinases and recruitment of PI-3 kinase.

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.

Bendall, S.C., et al. Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* 6 May 2011: 687-696.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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