

Anti-Human CD179a-149Sm

Catalog #: 3149012B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: HSL96

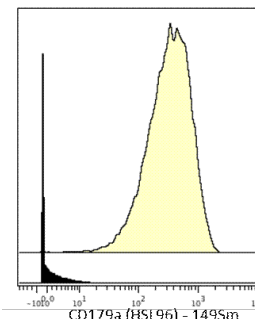
Isotype: Mouse IgG1

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 NALM-6 pre-B cells (top) and human Jurkat T Cells (bottom) stained with 149Sm-anti-CD179a (HSL96).

Description

CD179a, also known as VpreB, is an 18 kDa protein that combines with CD179b (λ5) to form the immunoglobulin surrogate light chain. Through the successful rearrangement of heavy chain genes, pro-B cells undergo differentiation into pre-B cells and start to express a premature antigen receptor, known as the pre-B-cell receptor (pre-BCR), consisting of µ, CD179a/b and the Igα/Igβ heterodimer. Upon further differentiation from pre-B cells to B cells, CD179a/b disappear and are replaced with conventional light chain.

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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