

Anti-Human CD52-146Nd

Catalog: 3146013B

Package Size: 100 tests

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

Reactivity: Human

Clone: HI186

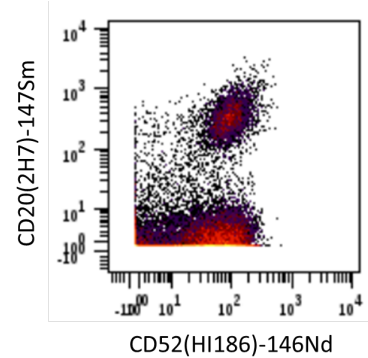
Isotype: IgG2b

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 146Nd-anti-CD52(HI186) and 147Sm-anti-CD20(2H7). Total viable cells are displayed in the analysis.

Description

The HI186 monoclonal antibody specifically binds to CD52, a 25-29 kD glycoprotein, also known as Cambridge pathology 1 antigen (CAMPATH-1) or Human epididymis-specific protein 5 (HE5). CD52 is N-glycosylated and its C-terminus is glycosphosphatidylinositol anchored in the membrane. It is highly expressed on the surface of thymocytes, mature lymphocytes, monocytes, dendritic cells, eosinophils and epithelial cells of the epididymis and seminal vesicles. Neutrophils, plasma cells, platelets and erythrocytes lack expression of CD52. The functional role of CD52 is not well characterized, however, anti-CD52 antibodies have been employed clinically to remove lymphocytes from transplanted bone marrow.

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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