

Anti-Human CD100-156Gd

Catalog: 3156021B

Package Size: 100 tests

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

Reactivity: Human,

Clone: A8

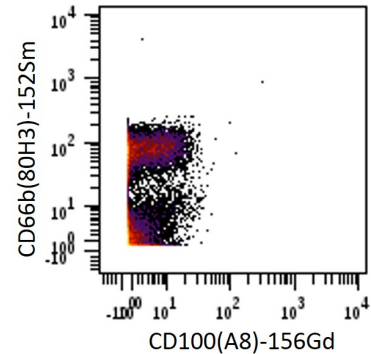
Isotype: IgG1

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 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 whole blood stained with 156Gd-anti-CD100(A8) and 152Sm-anti-CD66b(80H3). Total viable cells are displayed in the analysis.

Description

The A8 monoclonal antibody binds specifically to CD100, a 150 kDa type I transmembrane glycoprotein also known as Semaphorin-4D (SEMA4D). Semaphorins are neuronal chemorepellants that direct pioneering neurons during nervous system development. CD100 is widely expressed in the nervous and immune systems. CD100 is expressed on T cells, with increased expression correlating with upregulation. CD100 is also weakly expressed on NK cells, B cells, and monocytes. CD100 is thought to play a role in lymphocyte activation.

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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