

Anti-Human CD141-166Er

Catalog: 3166017B

Clone: M80

Package Size: 100 tests

Isotype: IgG1

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

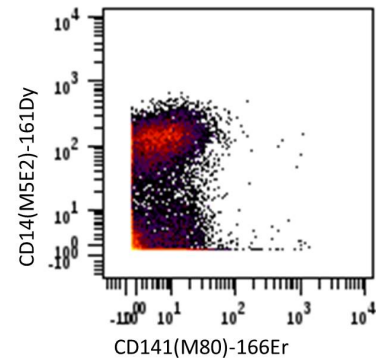
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human

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 166Er-anti-CD141(M80) and 161Dy-anti-CD14(M5E2). Total viable cells are displayed in the analysis.

Description

CD141, also known as thrombomodulin, is a 75kDa, single chain, type I membrane glycoprotein that binds to and allosterically activates thrombin. After binding to thrombin, this complex cleaves protein C and the Thrombin Activatable Fibrinolysis Inhibitor (TAFI), initiating an important anticoagulant and antifibrinolytic pathway. CD141 is expressed on macrophages, monocytes, a subpopulation of myeloid dendritic cells, vascular endothelial cells, and keratinocytes. Soluble CD141 is constitutively present in the serum at a very low level, and can be upregulated during inflammation.

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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