

# Anti-Human Siglec 8-164Dy

Catalog: 3164017B

Package Size: 100 tests

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

Reactivity: Human,

Clone: 7C9

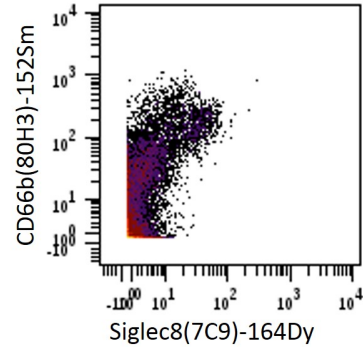
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 164Dy-anti-Siglec8(7C9) and 152Sm-anti-CD66b(80H3). Total viable cells are displayed in the analysis

## Description

The monoclonal antibody 7C9 recognizes Siglec-8, a 54 kD type I transmembrane protein. Siglecs are cell surface receptors belonging to the immunoglobulin superfamily that recognize sugar antigens. Siglec-8 is specific for 6'-sulfo-sLex and is primarily expressed on eosinophils, with low level expression in basophils and mast cells. The cytoplasmic domain of Siglec-8 has two immunoreceptor tyrosine-based inhibitor motifs (ITIM), which recruit SH2-family phosphatases following tyrosine phosphorylation. There is evidence Siglec8 crosslinking decreases eosinophil viability through apoptotic induction.

## 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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### EMAIL

United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com

Asia techsupportasia@fluidigm.com | Latin America techsupportlatam@fluidigm.com

All other countries techsupport@fluidigm.com

### PHONE

United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40

Japan +81 3 3662 2150 | China (excluding Hong Kong) +86 21 3255 8368

All other countries +1 650 266 6100

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