

# Anti-Human Semaphorin 6A-163Dy

Catalog: 3163018B

Package Size: 100 tests

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

Reactivity: Human,

Clone: 169203

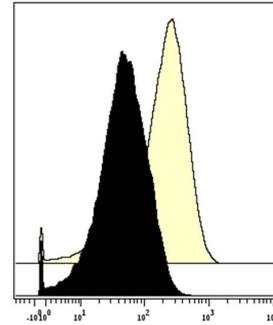
Isotype: IgG2b

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 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Semaphorin-6A (169203)-163Dy

Human K-562 cells (top) and human PBMCs (bottom) were fixed, permeabilized, and stained with 163Dy-anti-Semaphorin-6A (169203). Total viable cells are displayed in analysis.

## Description

Semaphorins are a large family of secreted and transmembrane proteins that act as axonal growth cone guidance molecules during neuronal development. Semaphorins are also expressed in non-neuronal tissues and are involved in angiogenesis, hematopoiesis, organogenesis, and the regulation of immune functions. All semaphorins contain a conserved extracellular semaphorin (Sema) domain of 500 amino acids at the N terminus. Human Semaphorin 6A is a transmembrane protein comprised of an extracellular domain, a transmembrane domain, and a long cytoplasmic tail. It is a cell surface receptor for PLXNA2 that plays an important role in cell-cell signaling.

## 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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