

# Anti-Human CD172a/b-175Lu

Catalog: 3175024B

Clone: SE5A5

Package Size: 100 tests

Isotype: IgG1

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

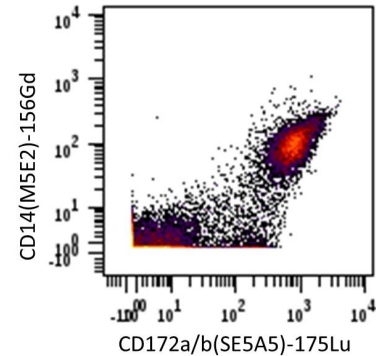
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human,

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<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 175Lu-anti-CD172a/b(SE5A5) and 156Gd-anti-CD14(M5E2). Total viable cells are displayed in the analysis.

## Description

CD172a/b, also known as signal-regulatory protein  $\alpha$  (SIRP $\alpha$ / $\beta$ ), is a 75-110 kDa transmembrane glycoprotein in immunoglobulin superfamily. It consists of three Ig-like extracellular domains and two cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). The interaction of ITIMs with the Src homology 2 domain-containing phosphatases SHP-1 and SHP-2 produces negative signaling in the regulation of leukocyte adhesion and transmigration, T cell activation, macrophage fusion, and phagocytosis. CD172a is expressed on monocytes/macrophages, granulocytes, dendritic cells, and neurons, but not on T and B lymphocytes.

## 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.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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