

# Anti-Human CD47-209Bi

Catalog: 3209004B

Package Size: 100 tests

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

Reactivity: Human

Clone: CC2C6

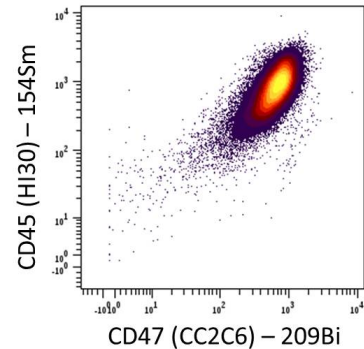
Isotype: Mouse IgG1

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 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.



Human PBMCs stained with 209Bi anti-human CD47 (CC2C6) and 154Sm anti-CD45 (HI30).

## Description

CD47 is a 42-52 kDa member of the immunoglobulin (Ig) superfamily, which contains a single Ig variable region (IgV)-like extracellular domain and regulates multiple cellular processes implicated in immune responses. It is widely expressed on hematopoietic and non-hematopoietic cells. CD47 makes numerous protein-protein interactions with cell surface and soluble ligands including integrins, thrombospondin (TSP-1) and signal regulatory protein alpha (SIRPα). Recently, CD47 has been considered as a therapeutic target for acute myeloid leukemia (AML) since it was noticed that CD47 is expressed on AML cells at higher levels than on their normal counterparts, and that increased expression is associated with poor clinical outcomes.

## 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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