

Anti-Human/Mouse CD207-175Lu

Catalog #: 3175016B

Package Size: 100 tests

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

Cross Reactivity: Cynomolgus Monkey, Mouse, Human, Porcine

Clone: 4C7

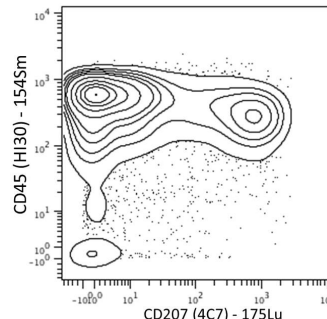
Isotype: Mouse IgG2a

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 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human monocyte-derived dendritic cells stained with 154Sm-anti-CD45 (HI30) and 175Lu-anti- CD207 (4C7). CD45+CD3-CD19- viable cells are displayed in the analysis.

Description

CD207, also known as Langerin, is a C-type lectin expressed on specialized dendritic cells, known as Langerhans Cells. CD207 mediates carbohydrate-dependent uptake of pathogens in the first step of antigen presentation to the adaptive immune system and binds a diverse range of carbohydrates. Pathogens bound by CD207 include Mycobacterium leprae, viruses such as HIV, herpes simplex virus 2, and measles, and fungi including Candida species. CD207 mediates internalization of glycoconjugates into Birbeck granules, which are subdomains of the endosomal compartment unique to Langerhans cells, as the first step in antigen presentation.

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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