

Anti-Human CD206-168Er

Catalog #: 3168008B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: 15-2

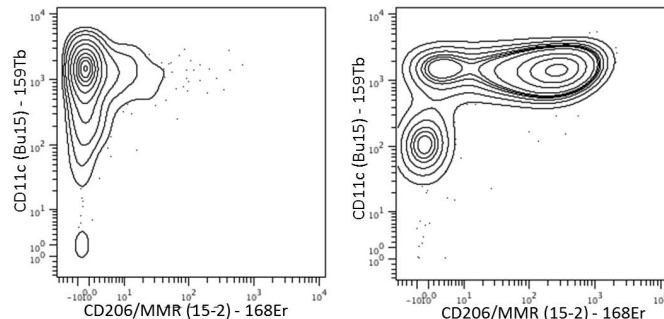
Isotype: Mouse IgG1

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



Human PBMCs were incubated for 3 days in media alone (left) or with GM-CSF (right). Cells were then stained with 159Tb-anti-CD11c (Bu15) and 168Er-anti-CD206/MMR (15-2). CD33+ Monocyte cells are displayed in the analysis.

Description

CD206 is a 162-175 kDa mannose receptor C-type lectin cell surface protein that belongs to a family of C-type lectin receptors (CLRs). CLRs are crucial in recognition of complex glycan structures on various pathogens and have evolved to facilitate the endocytosis and presentation of pathogens. CD206 contains 8 C-type lectin-like domains (CTLD) and acts as a phagocytic receptor for bacteria, fungi and other pathogens. CTLD4, 5, and -7 are required for high affinity binding and endocytosis of multivalent glycoconjugates. Studies have demonstrated that immature monocyte derived dendritic cells (MMDCs), bone-marrow derived DCs (BMDCs) and macrophages mediate, via CD206, the uptake of diverse native allergens and subsequent allergic sensitization as well as allergen induced T cell polarization. Furthermore, MMDCs from allergic patients have been shown to be more efficient in antigen uptake via CD206 than those from healthy individuals.

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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