

Anti-Human CD294-163Dy

Catalog #: 3163003B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: BM16

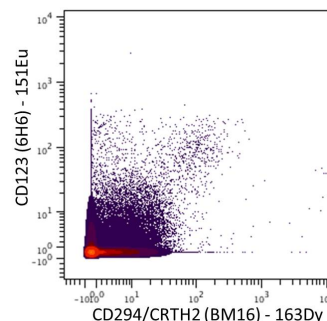
Isotype: Rat IgG2a

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 PBMCs stained with 151Eu-anti-CD123 (6H6) and 163Dy-anti-CD294/CRTH2 (BM16).

Description

CD294, also known as CRTH2, is a G-protein-coupled receptor expressed by Th2 lymphocytes, eosinophils and basophils, which mediates the activation of these cell types in response to the mast cell product prostaglandin D2. CRTH2 plays an important role in mast cell-dependent activation of both Th2 lymphocytes and eosinophils, promoting both increased cell migration and production of Th2 cytokines. Studies on CRTH2-deficient mice or on animals treated with small-molecule antagonists have highlighted the involvement of this receptor in effector responses to allergen including leucocyte accumulation, Th2 cytokine production, tissue swelling, airway hyperresponsiveness and production of IgE.

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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