

Anti-Mouse CD197-164Dy

Catalog #: 3164013A

Package Size: 50 tests

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

Cross Reactivity: Mouse

Clone: 4B12

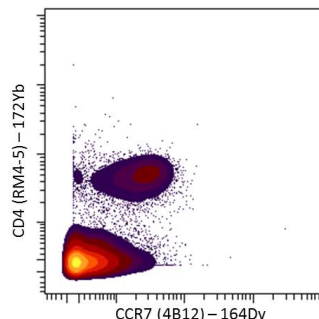
Isotype: Rat IgG2a

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.



Mouse splenocytes stained at 37°C with 172Yb-anti-CD4 (RM4-5) and 164Dy-anti-CCR7 (4B12). Total viable B220+CD3+ cells are displayed in the analysis.

Description

CD197, also known as CCR7, is a G-protein coupled receptor with a predicted molecular weight of 43 kDa. CD197 is expressed by all naïve lymphocyte subsets, by central memory T cells, and by migratory dendritic cells. Mice lacking CD197 or its ligands, CCL19 (MIP-3β) and CCL21 (SLC), display numerous dramatic phenotypes, including paucities in several T cell subpopulations and severe diminution in T cell-mediated antigen responses. It is thought that these phenotypes are due to defective T cell trafficking.

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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