

# Anti-Human CD184/CXCR4-173Yb

Catalog: 3173001B

Package size: 100 tests

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

Cross-reactivity: Cynomolgus Monkey, Rhesus, Chimpanzee, Olive Baboon, Sooty Mangabey, African Green

Clone: 12G5

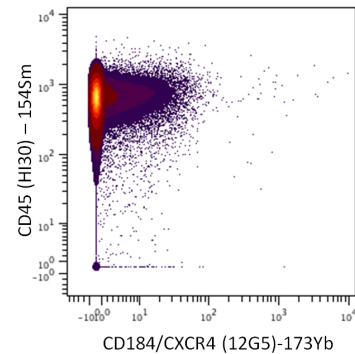
Isotype: Mouse IgG2a

Formulation: Antibody stabilizer with 0.05% sodium azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control-tested by CyTOF<sup>®</sup> analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended usage:** The suggested use is 1  $\mu$ L for up to  $3 \times 10^6$  live cells in 100  $\mu$ L. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMC stained with 154Sm-anti-CD45 (HI30) and 173Yb-anti-CD184/CXCR4 (12G5).

## Description

CD184, also known as CXCR4, is an alpha-chemokine receptor specific for stromal-derived factor-1 (SDF-1). This surface protein has seven transmembrane regions. CXCR4 is one of the most important chemokine receptors that act as co-receptors for HIV entry into CD4+ T cells. It is expressed widely in blood and several other tissues.

## 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 (2009): 6,813–22.

Ornatsky, O.I. et al. "Highly multiparametric analysis by mass cytometry." *Journal of Immunological Methods* 361 (2010): 1–20.

Bendall, S. C., et al. Single-Cell Mass Cytometry of Differential Immune and Drug Responses Across a Human Hematopoietic Continuum. *Science* (2011): 687–96.

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