

Anti-Human CD184 (CXCR4) Purified

Catalog Number :16911-20

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 12G5

Format/Conjugate: Purified

Concentration: 0.5 mg/ml

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Mouse IgG2a, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC

Description

The 12G5 monoclonal antibody specifically bind to human CD184 (CXCR4), a seven-transmembrane G-protein-coupled receptor. It is widely expressed on endothelial cells, hematopoietic cells, and also on naïve T cell subsets. CD184 is the receptor for SDF-1 and an alternative receptor for HIV-1. The 12G5 antibody is reported to inhibit SDF-1 induced chemotaxis and calcium influx and some CD4-dependent infections of HIV-1.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Bleul, C. C., Wu, L., Hoxie, J. A., Springer, T. A., Mackay, C. R. (1997). The HIV coreceptors CXCR4 and CCR5 are differentially expressed and regulated on human T lymphocytes.; *Proceedings of the National Academy of Sciences*, 94(5), 1925-1930.
2. Feng, Y., Broder, C. C., Kennedy, P. E., Berger, E. A. (1996). HIV-1 entry cofactor: functional cDNA cloning of a seven-transmembrane, G protein-coupled receptor.; *Science*, 272(5263), 872-877.
3. Simmons, G., Wilkinson, D., Reeves, J. D., Dittmar, M. T., Beddows, S., Weber, J., ... Clapham, P. R. (1996). Primary, syncytium-inducing human immunodeficiency virus type 1 isolates are dual-tropic and most can use either Lestr or CCR5 as coreceptors for virus entry.; *Journal of Virology*, 70(12), 8355-8360.