biogems
Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse TIGIT PE

Catalog Number :81812-60

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

Product Information

Clone: 1G9

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, 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 and protected from prolonged exposure to light.

Applications: FC

Description

The 1G9 monoclonal antibody specifically binds to the mouse TIGIT, expressed on the T helper cells. While in humans it is expressed also on natural killer cells, Treg cells, memory CD4+ and CD8+ T lymphocytes. TIGIT is not expressed on B cells and is upregulated on CD4+ T cells following activation.TIGIT interacts with CD155, and mediates the interaction between natural killer cells or T lymphocytes with APC and fibroblasts and endothelial cells expressing PVR or PVR-like proteins.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Levin, S. D., Taft, D. W., Brandt, C. S., Bucher, C., Howard, E. D., Chadwick, E. M., ... Lewis, K. E. (2011). Vstm3 is a member of the CD28 family and an important modulator of T-cell function. European journal of immunology,;41(4), 902-915.

2. Joller, N., Hafler, J. P., Brynedal, B., Kassam, N., Spoerl, S., Levin, S. D., ... Kuchroo, V. K. (2011). Cutting edge: TIGIT has T cell-intrinsic inhibitory functions.;The Journal of Immunology,;186(3), 1338-1342.