

## Anti-Mouse TIGIT PE

Catalogue Number : 81812-60

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

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### 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.