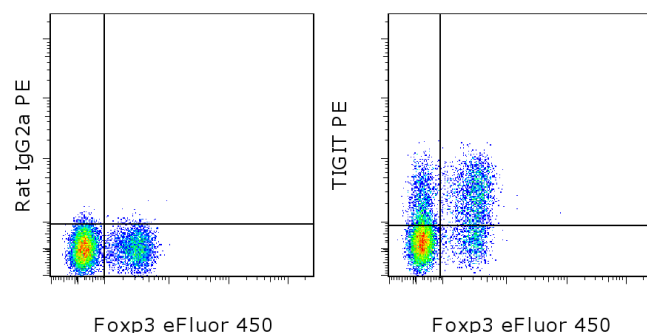


## Anti-Mouse TIGIT PE

**Catalog Number:** 12-9501

**Also known as:** VSTM3, WUCAM

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



Staining of BALB/c splenocytes with Anti-Mouse/Rat Foxp3 eFluor® 450 (cat. 48-5773) and 0.5 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.5 ug of Anti-Mouse TIGIT PE (right). Total CD4 positive (cat. 11-0042) cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse TIGIT PE



**Catalog Number:** 12-9501

**Clone:** GIGD7

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Rat IgG2a, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



### Description

The GIGD7 monoclonal antibody reacts with mouse T cell immunoreceptor with Ig and ITIM domains (TIGIT, VSTM3, WUCAM), a 26 kDa protein that is a member of the poliovirus receptor (PVR) family. In mice, the expression of TIGIT has been reported in follicular T helper cells, while in humans, the expression of TIGIT has been reported on NK cells, regulatory T cells, follicular T helper cells, memory CD4+ T cells, and CD8+ T cells. TIGIT is not expressed on B cells or naïve CD4+ T cells. TIGIT is upregulated on CD4+ T cells following activation. TIGIT can interact with certain members of the PVR and PVR-like families, including CD155, and also mediates the interaction of NK cells and T cells with antigen presenting cells, fibroblasts and endothelial cells that express PVR and PVR-like proteins.

### Applications Reported

This GIGD7 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This GIGD7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Stanietsky N, Simic H, Arapovic J, Toporik A, Levy O, Novik A, Levine Z, Beiman M, Dassa L, Achdout H, Stern-Ginossar N, Tsukerman P, Jonjic S, Mandelboim O. The interaction of TIGIT with PVR and PVRL2 inhibits human NK cell cytotoxicity. *Proc Natl Acad Sci U S A.* 2009 Oct 20;106(42):17858-63.

Boles KS, Vermi W, Facchetti F, Fuchs A, Wilson TJ, Diacovo TG, Cella M, Colonna M. A novel molecular interaction for the adhesion of follicular CD4 T cells to follicular DC. *Eur J Immunol.* 2009 Mar;39(3):695-703.

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## **Anti-Mouse TIGIT PE**

**Catalog Number:** 12-9501

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Yu X, Harden K, Gonzalez LC, Francesco M, Chiang E, Irving B, Tom I, Ivelja S, Refino CJ, Clark H, Eaton D, Grogan JL. The surface protein TIGIT suppresses T cell activation by promoting the generation of mature immunoregulatory dendritic cells. Nat Immunol. 2009 Jan;10(1):48-57.

### **Related Products**

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0042 Anti-Mouse CD4 FITC (RM4-5)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)

48-5773 Anti-Mouse/Rat Foxp3 eFluor® 450 (FJK-16s)