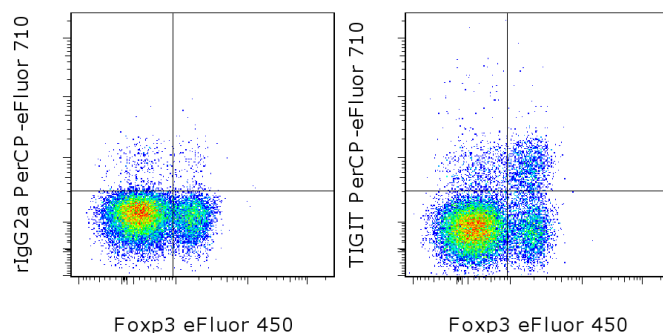


## Anti-Mouse TIGIT PerCP-eFluor® 710

**Catalog Number:** 46-9501

**Also known as:** VSTM3, WUCAM

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



Staining of BALB/c splenocytes with Anti-Mouse CD4 FITC (cat. 11-0042) and 0.5 ug of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (cat. 46-4321) (left) or 0.5 ug of Anti-Mouse TIGIT PerCP-eFluor® 710 (right) followed by fixation and permeabilization with the Foxp3 Staining Buffer Set (cat. 00-5523) and intracellular staining with Anti-Mouse/Rat Foxp3 eFluor® 450 (cat. 48-5773). CD4+ cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse TIGIT PerCP-eFluor® 710

**Catalog Number:** 46-9501

**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

**Contains sodium azide**

### 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

### References

Koyama M, Kuns RD, Olver SD, Lineburg KE, Lor M, Teal BE, Raffelt NC, Leveque L, Chan CJ, Robb RJ, Markey

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Stanietzky 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.

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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

11-0041 Anti-Mouse CD4 FITC (GK1.5)

46-4321 Rat IgG2a K Isotype Control PerCP-eFluor® 710 (eBR2a)

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