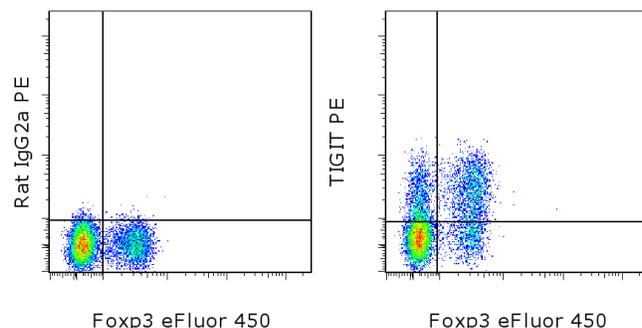


Anti-Mouse TIGIT PE

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 FcγR3 eFluor[®] 450 (cat. 48-5773) and 0.5 µg of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.5 µg 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Seth S, Ravens I, Kremmer E, Maier MK, Hadis U, Hardtke S, Förster R, Bernhardt G. Abundance of follicular helper T cells in Peyer's patches is modulated by CD155. *Eur J Immunol.* 2009 Nov;39(11):3160-70.

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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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)

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