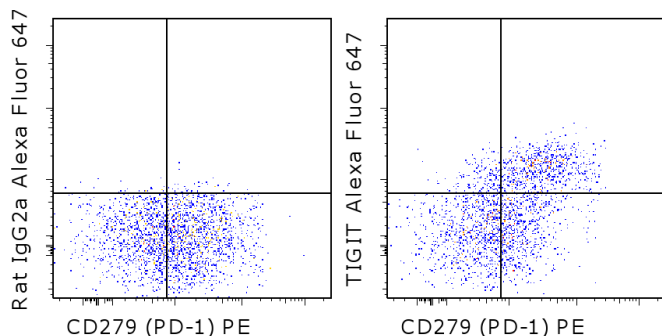


Anti-Mouse TIGIT Alexa Fluor® 647

Catalog Number: 51-9501

Also known as: VSTM3, WUCAM

RUO: For Research Use Only



Staining of sheep red blood cell-immunized C57Bl/6 splenocytes with Anti-Mouse CD3 PerCP-eFluor® 710 (cat. 46-0032), Anti-Mouse CD4 eFluor® 450 (cat. 48-0042), Anti-Mouse/Rat CD278 (ICOS) FITC (cat. 11-9949), Anti-Mouse CD279 (PD-1) PE (cat. 12-9985) and 0.5 ug of Rat IgG2a K Isotype Control Alexa Fluor® 647 (cat. 51-4321) (left) or 0.5 ug of Anti-Mouse TIGIT Alexa Fluor® 647 (right). Doublets were excluded from analysis, and the Tfh cells (CD3+ CD4+ ICOS high) were used for analysis.

Product Information

Contents: Anti-Mouse TIGIT Alexa Fluor® 647



Catalog Number: 51-9501

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.

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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.

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

11-9949 Anti-Mouse/Rat CD278 (ICOS) FITC (C398.4A)

12-9500 Anti-Human TIGIT PE (MBSA43)

12-9985 Anti-Mouse CD279 (PD-1) PE (J43)

46-0032 Anti-Mouse CD3 PerCP-eFluor® 710 (17A2)

48-0042 Anti-Mouse CD4 eFluor® 450 (Pacific Blue® replacement) (RM4-5)

51-4321 Rat IgG2a K Isotype Control Alexa Fluor® 647 (To Be Discontinued. Refer to NEW Format: eFluor® 660 cat. 50-4321)

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