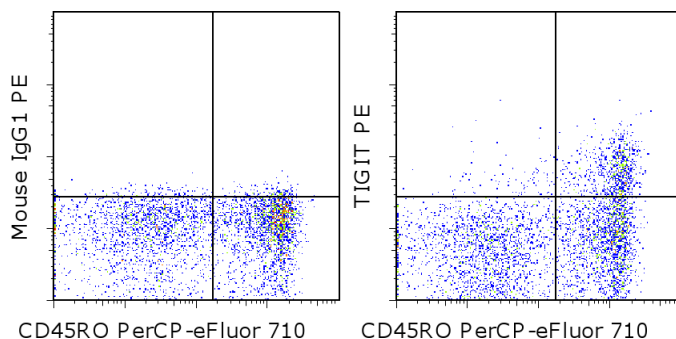


Anti-Human TIGIT PE

Catalog Number: 12-9500

Also known as: VSTM3, WUCAM

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



Staining of normal human peripheral blood cells with Anti-Human CD4 APC (cat. 17-0049), Anti-Human CD45RO PerCP-eFluor® 710 (cat. 46-0457) and Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (left) or Anti-Human TIGIT PE (right). CD4+ cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Human TIGIT PE

Catalog Number: 12-9500

Clone: MBSA43

Concentration: 5 µL (0.125 µg)/test

Host/Isotype: Mouse IgG1, 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 MBSA43 monoclonal antibody reacts to human T cell immunoreceptor with Ig and ITIM domains (TIGIT), which is also known as VSTM3 or WUCAM. This 26 kDa protein is a member of the poliovirus receptor (PVR) family. 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, but it is not expressed on B cells or naïve CD4+ T cells. TIGIT may be upregulated on naïve CD4+ T cells upon activation. TIGIT can interact with certain members of the PVR and PVR-like families, including CD155, and also mediates the interaction of NK and T cells with antigen presenting cells, fibroblasts and endothelial cells that express PVR and PVR-like proteins.

Applications Reported

This MBSA43 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MBSA43 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

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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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

11-4776 Anti-Human Foxp3 FITC (PCH101)

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

17-0049 Anti-Human CD4 APC (RPA-T4)

46-0457 Anti-Human CD45RO PerCP-eFluor® 710 (UCHL1)