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## Anti-Human TIGIT Functional Grade Purified

**Catalog Number:** 16-9500

**Also known as:** VSTM3, WUCAM

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

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### Product Information

**Contents:** Anti-Human TIGIT Functional Grade Purified

**REF** **Catalog Number:** 16-9500

**Clone:** MBSA43

**Concentration:** 1 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**Handling Conditions:** Use in sterile environment.

**Endotoxin:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



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### 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. In a functional assay, MBSA43 enhances IFN gamma secretion following TCR activation.

### Applications Tested

This MBSA43 antibody has been tested by flow cytometric analysis. This can be used at less than or equal to 0.25 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

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.

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

16-0037 Anti-Human CD3 Functional Grade Purified (OKT3)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.8.1)

88-7316 Human IFN gamma ELISA Ready-SET-Go!®

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