

Anti-Human TIGIT-154Sm

Catalog: 3154016B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human,

Clone: MBSA43

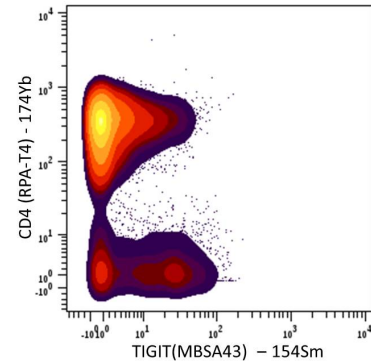
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 174Yb-anti-CD4 (RPA-T4) and 154Sm-anti-TIGIT (MBSA43). CD3+ T cells are displayed in the analysis.

Description

T cell Ig and ITIM domain (TIGIT) is a transmembrane glycoprotein belonging to a poliovirus receptor family of type 1 proteins that also binds to CD155 and CD112 ligands. TIGIT is expressed on peripheral memory and regulatory CD4+ T (Treg) cells and NK cells and is upregulated following activation on naive CD4+ T cells. CD155 is a high-affinity receptor for TIGIT expressed on monocytes and CD11c+ human dendritic cells (DCs). TIGIT contains an Ig-like V-type domain and an ITIM in its cytoplasmic domain, suggesting that receptor occupancy may trigger a negative signaling event. Engagement of TIGIT by CD155 on human DCs enhanced the production of IL-10 while diminishing the production of IL-12p40, and a T cell-intrinsic inhibitory effect of TIGIT-dependent T cell signaling pathway was demonstrated in murine models of experimental autoimmune encephalomyelitis (EAE).

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

For technical support visit fluidigm.com/support

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