

Anti-Human Tim-3-154Sm

Catalog: 3154010B

Clone: F38-2E2

Package Size: 100 tests

Isotype: IgG1

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

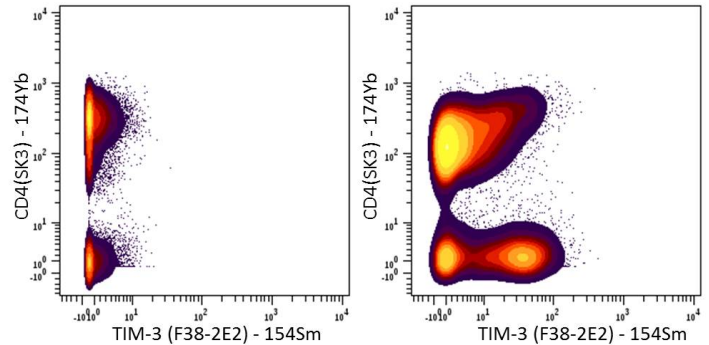
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human

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 μ l for up to 3×10^6 live cells in 100 μ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 3 days in media alone (left) or with PHA (right). Cells were then stained with 174Yb-anti-CD4 (SK3) and 154Sm-anti-Tim-3 (F38-2E2). CD3+ T cells are displayed in the analysis.

Description

T-cell immunoglobulin and mucin domain-containing molecule 3 (Tim-3) is a type I transmembrane receptor that is constitutively expressed at high levels on NK cells, and also expressed on specific subsets of CD4+ and CD8+ T cells, on subpopulations of macrophages and DCs, and on monocytes, albeit to a lesser extent than on NK cells. Tim-3 was originally identified as a marker of terminally differentiated CD4+ Th1 cells, and subsequently associated with T-cell exhaustion and impaired virus-specific T-cell responses in HIV-1, hepatitis C virus (HCV) and hepatitis B virus (HBV) infection. To date, three ligands have been described for Tim-3, including Galectin-9 (Gal-9), cell-surface phosphatidylserine, and the high-mobility group box 1 (HMGB1) protein. Gal-9 is highly expressed in immune tissues, and engagement of Tim-3 by Gal-9 triggers apoptosis in CD4+ Th1 cells, T cells and thymocytes. Tim-3 signaling on immune cells can trigger either inhibitory or activating signals.

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.

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