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.
Reactivity: Human
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 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

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


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