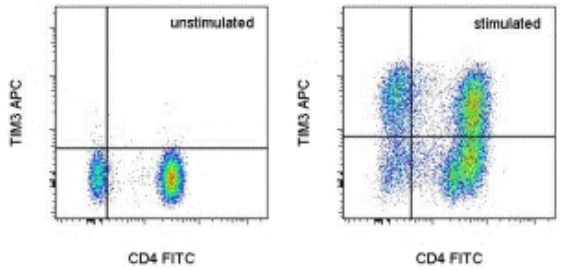
Anti-Human TIM3 APC

Catalog Number: 17-3109
Also Known As:T cell immunoglobulin domain, mucin-like domain
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of unstimulated (left) or Anti-Human CD3 and Anti-Human CD28 Functional Grade Purified (cat. 16-0037 and 16-0289)-stimulated (right) normal human peripheral blood cells with Anti-Human CD4 FITC (cat. 11-0048) and Anti-Human TIM3 APC. Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (cat. 65-0865), were used for analysis.

Product Information

Contents: Anti-Human TIM3 APC
REF **Catalog Number:** 17-3109
Clone: F38-2E2
Concentration: 5 uL (0.06 ug)/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.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

This F38-2E2 monoclonal antibody reacts with human T cell immunoglobulin and mucin domain-containing molecule (TIM)-3. The cell surface receptor is expressed on activated CD4+ T cell subsets (e.g. Th1, Th17, and Tregs), CD8+ T cells, monocytes, dendritic cells, and mast cells. Due to alternative splicing, TIM3 exists as membrane-bound and soluble forms. Galectin-9 has been identified as the ligand for TIM3. In humans, this receptor negatively regulates CD4+ T cells, influencing the secretion of some Th1- and Th-17-related cytokines. TIM3 has also been implicated in tolerance, autoimmune disease (e.g. multiple sclerosis), and HIV infection.

Applications Reported

This F38-2E2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This F38-2E2 antibody has been pre-titrated and tested by flow cytometric analysis of cultured normal human peripheral blood cells. This can be used at 5 µL (0.06 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 10^5 to 10^8 cells/test.

References

Hastings WD, Anderson DE, Kassam N, Koguchi K, Greenfield EA, Kent SC, Zheng XX, Strom TB, Hafler DA, Kuchroo VK. TIM-3 is expressed on activated human CD4+ T cells and regulates Th1 and Th17 cytokines. Eur J Immunol. 2009 Sep;39(9):2492-501. (F38-2E2, FC, PubMed)

Su EW, Lin JY, Kane LP. TIM-1 and TIM-3 proteins in immune regulation. Cytokine. 2008 Oct;44(1):9-13.

Koguchi K, Anderson DE, Yang L, O'Connor KC, Kuchroo VK, Hafler DA. Dysregulated T cell expression of TIM3 in multiple sclerosis. J Exp Med. 2006 Jun 12;203(6):1413-8.

Related Products

00-4222 Flow Cytometry Staining Buffer
11-0048 Anti-Human CD4 FITC (OKT4 (OKT-4))
14-8129 Human IL-12 p70 Recombinant Protein
16-0037 Anti-Human CD3 Functional Grade Purified (OKT3)
16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)
16-7048 Anti-Human IL-4 Functional Grade Purified (MP4-25D2)
17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.8.1)
65-0865 Fixable Viability Dye eFluor® 780

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