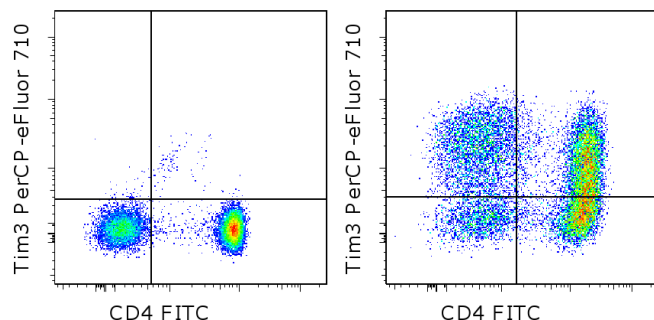


Anti-Human TIM3 PerCP-eFluor® 710

Catalog Number: 46-3109

Also known as: T cell immunoglobulin domain, mucin-like domain

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



Human peripheral blood cells were unstimulated (left) or stimulated with Anti-Human CD3 (cat. 16-0037) and Anti-Human CD28 (cat. 16-0289) for 3 days (right). Cells were then stained with Anti-Human CD4 FITC (cat. 11-0049) and Anti-Human TIM3 PerCP-eFluor® 710. Total viable cells were used for analysis.

Product Information

Contents: Anti-Human TIM3 PerCP-eFluor® 710



Catalog Number: 46-3109

Clone: F38-2E2

Concentration: 5 µL (0.06 µg)/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.



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 stimulated 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 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click here or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

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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

11-0049 Anti-Human CD4 FITC (RPA-T4)

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

16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)