CD366 (TIM3) Monoclonal Antibody (F38-2E2), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	F38-2E2
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2802205

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	4 Publications

Product Specific Information

Description: This F38-2E2 monoclonal antibody reacts with human CD366, also known as T cell immunoglobulin and mucin domain-containing protein 3 (TIM3) or HAVCR2. This cell surface receptor is expressed on activated CD4+ T cell subsets (e.g. Th1, Th17, and Treg), CD8+ T cells, monocytes, dendritic cells, and mast cells. Due to alternative splicing, CD366 exists as membrane-bound and soluble forms. Galectin-9 has been identified as the ligand for CD366. In humans, this receptor negatively regulates CD4+ T cells, influencing the secretion of some Th1- and Th17-related cytokines. CD366 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-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.125 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.

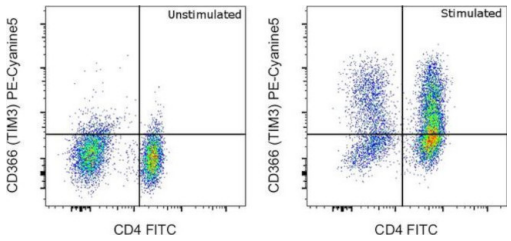
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on

brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD366 (TIM3) Monoclonal Antibody (F38-2E2), PE-Cyanine5, eBioscience™



CD366 (TIM3) Antibody (15-3109-42) in Flow
Normal human peripheral blood cells were unstimulated (left) or stimulated for 72 hours with CD3 and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0037-85 and Product # 16-0289-85) (right). Cells were then stained with CD4 Monoclonal Antibody, FITC (Product # 11-0049-42) and CD366 (TIM3) Monoclonal Antibody, PE-Cyanine5. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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5 References

Western Blot (1)

The Biochemical journal

Phosphatidylserine binding directly regulates TIM-3 function.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 15-3109-42) in Western Blot"

Authors: Smith CM,Li A,Krishnamurthy N,Lemmon MA

Year
2021

Flow Cytometry (4)

EBioMedicine

SLC1A1 mediated glutamine addiction and contributed to natural killer T-cell lymphoma progression with immunotherapeutic potential.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 15-3109-42) in Flow Cytometry"

Authors: Xiong J,Wang N,Zhong HJ,Cui BW,Cheng S,Sun R,Chen JY,Xu PP,Cai G,Wang L,Sun XJ,Huang JY,Zhao WL

Year
2021

Oncoimmunology

TIGIT^{+} TIM-3^{+} NK cells are correlated with NK cell exhaustion and disease progression in patients with hepatitis B virusrelated hepatocellular carcinoma.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 15-3109-42) in Flow Cytometry"

Authors: Yu L,Liu X,Wang X,Yan F,Wang P,Jiang Y,Du J,Yang Z

Year
2021

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More applications with references on thermofisher.cn