CD366 (TIM3) Monoclonal Antibody (F38-2E2), Alexa Fluor™ 700, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	F38-2E2
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_2784767

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	6 Publications
ELISA (ELISA)	-	1 Publication

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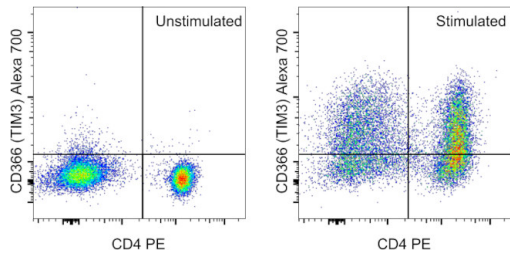
Applications Reported: This F38-2E2 antibody has been reported for use in flow cytometric analysis.

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 (0.5 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.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

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Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser

Product Images For CD366 (TIM3) Monoclonal Antibody (F38-2E2), Alexa Fluor™ 700, eBioscience™

CD366 (TIM3) Antibody (56-3109-42) 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, PE (Product # 12-0049-42) and CD366 (TIM3) Monoclonal Antibody, Alexa Fluor 700. Total viable cells, as determined by 7-AAD Viability Staining Solution (Product # 00-6993-50), were used for analysis.

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Western Blot (1)

The Biochemical journal

Phosphatidylserine binding directly regulates TIM-3 function.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 56-3109-42) in Western Blot"

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

Year
2021

Flow Cytometry (6)

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 # 56-3109-42) 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 # 56-3109-42) in Flow Cytometry"

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

Year
2021

View more Flow references on thermofisher.com

ELISA (1)

European journal of immunology

TIM-3 is expressed on activated human CD4+ T cells and regulates Th1 and Th17 cytokines.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 56-3109-42) in Flow Cytometry"

Authors: Hastings WD,Anderson DE,Kassam N,Koguchi K,Greenfield EA,Kent SC,Zheng XX,Strom TB,Hafler DA,Kuchroo VK

Year
2009

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