

CD366 (TIM3) Monoclonal Antibody (F38-2E2), Super Bright™ 702, 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), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	F38-2E2
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2717167

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	4 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 10⁵ to 10⁸ cells/test.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

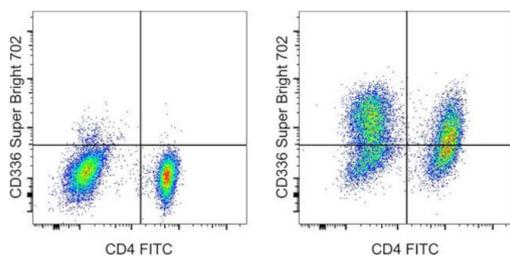
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) 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: 405 nm; Emission: 702 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD366 (TIM3) Monoclonal Antibody (F38-2E2), Super Bright™ 702, eBioscience™



CD366 (TIM3) Antibody (67-3109-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated with CD3 and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0037 and 16-0289) for 3 days (right). Cells were then stained with CD4 Monoclonal Antibody, FITC (Product # 11-0047) and CD366 Monoclonal Antibody, Super Bright 702 (Product # 67-3109-42). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

6 References

Western Blot (1)

The Biochemical journal

Phosphatidylserine binding directly regulates TIM-3 function.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 67-3109-42) 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 # 67-3109-42) 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 virus related hepatocellular carcinoma.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 67-3109-42) 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 # 67-3109-42) in ELISA"

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

Year
2009

More applications with references on thermofisher.com

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