

CD366 (TIM3) Monoclonal Antibody (F38-2E2), Functional Grade, eBioscience™

| Product Details | |
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| Size | 500 µg |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | F38-2E2 |
| Conjugate | Functional Grade |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | no preservative |
| Storage conditions | 4° C |
| RRID | AB_2573083 |

| Applications | Tested Dilution | Publications |
|----------------------------|-----------------|----------------|
| Western Blot (WB) | - | 1 Publication |
| Immunohistochemistry (IHC) | - | 1 Publication |
| Flow Cytometry (Flow) | - | 4 Publications |
| ELISA (ELISA) | - | 1 Publication |
| Functional Assay (FN) | Assay-Dependent | - |

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 Tested: This F38-2E2 antibody has been tested by flow cytometric analysis of stimulated human peripheral blood cells. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

7 References

Western Blot (1)

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| <p>The Biochemical journal</p> <p>Phosphatidylserine binding directly regulates TIM-3 function.</p> <p>"Published figure using CD366 (TIM3) monoclonal antibody (Product # 16-3109-85) in Western Blot"</p> <p>Authors: Smith CM,Li A,Krishnamurthy N,Lemmon MA</p> | <p>Year</p> <p>2021</p> |
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Immunohistochemistry (1)

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| <p>Clinical cancer research : an official journal of the American Association for Cancer Research</p> <p>Combination Therapy with Anti-PD-1, Anti-TIM-3, and Focal Radiation Results in Regression of Murine Gliomas.</p> <p>"16-3109 was used in Immunohistochemistry to investigate T-cell immunoglobulin mucin-3 expression in a glioma model and the antitumour efficacy of TIM-3 blockade alone and in combination with anti-programmed death-1 and stereotactic radiosurgery."</p> <p>Authors: Kim JE,Patel MA,Mangraviti A,Kim ES,Theodros D,Velarde E,Liu A,Sankey EW,Tam A,Xu H,Mathios D, Jackson CM,Harris-Bookman S,Garzon-Muvdi T,Sheu M,Martin AM,Tyler BM,Tran PT,Ye X,Oliv A,Taube JM,Burger PC,Drake CG,Brem H,Pardoll DM,Lim M</p> | <p>Year</p> <p>2017</p> <p>Species</p> <p>Human</p> |
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Flow Cytometry (4)

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| <p>EBioMedicine</p> <p>SLC1A1 mediated glutamine addiction and contributed to natural killer T-cell lymphoma progression with immunotherapeutic potential.</p> <p>"Published figure using CD366 (TIM3) monoclonal antibody (Product # 16-3109-85) in Flow Cytometry"</p> <p>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</p> | <p>Year</p> <p>2021</p> |
| <p>Oncoimmunology</p> <p>TIGIT⁺ TIM-3⁺ NK cells are correlated with NK cell exhaustion and disease progression in patients with hepatitis B virusrelated hepatocellular carcinoma.</p> <p>"Published figure using CD366 (TIM3) monoclonal antibody (Product # 16-3109-85) in Flow Cytometry"</p> <p>Authors: Yu L,Liu X,Wang X,Yan F,Wang P,Jiang Y,Du J,Yang Z</p> | <p>Year</p> <p>2021</p> |

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ELISA (1)

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