

# CD366 (TIM3) Monoclonal Antibody (8B.2C12), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	8B.2C12
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465977

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	10 Publications
Functional Assay (FN)	-	1 Publication

## Product Specific Information

Description: The 8B.2C12 monoclonal antibody reacts with mouse CD366 (TIM3), a Th1-specific cell surface protein. CD366 is a type I transmembrane protein and contains an immunoglobulin and a mucin-like domain in its extracellular portion and a tyrosine phosphorylation motif in its cytoplasmic portion. CD366 is expressed selectively by differentiated CD4+ Th1 and CD8+ Tc1, but is absent on Th2 and Tc2. Other hematopoietic cell types, including naive T cells, B cells, macrophages and dendritic cells, do not express CD366, at least at the protein level. Expression of CD366 is upregulated at a late stage of T cell differentiation on Th1 cells after 3 rounds of in vitro polarization suggesting a role for this molecule in the transport or effector function of Th1 cells rather than a contribution to T cell differentiation. In an experimental autoimmune encephalomyelitis (EAE) model, CD366 was shown to be expressed on most CD4+ and CD8+ T cells in the central nervous system at the onset of clinical signs of disease, while less than 2% of CD4+ cells in the periphery expressed CD366 after immunization. In this model, in vivo administration of 8B.2C12 resulted in a hyperacute and atypical disease phenotype. It is postulated that the engagement of CD366 during T cell activation results in the expansion and activation of macrophages and increased severity of autoimmune disease. The Tim gene family may have an important role in the regulation of autoimmunity and allergies.

The 8B.2C12 antibody binds to the BALB/c allele of CD366 while reactivity to the C57Bl/6 allele is significantly weaker.

Applications Reported: 8B.2C12 has been reported for use in flow cytometric analysis.

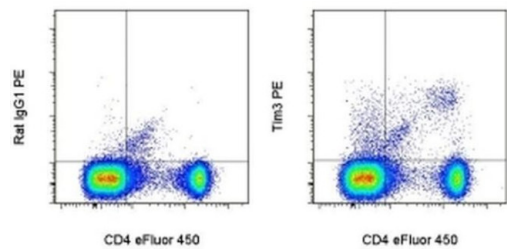
Applications Tested: The 8B.2C12 antibody has been tested by flow cytometric analysis of mouse splenocytes and mouse Tim-

3 transfected cells and can be used at less than or equal to 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD366 (TIM3) Monoclonal Antibody (8B.2C12), PE, eBioscience™**



**CD366 (TIM3) Antibody (12-5871-82) in Flow**  
Staining of BALB/c splenocytes with Anti-Mouse CD4 eFluor® 450 (Product # 48-0042-82) and 0.06 µg of Rat IgG1 K Isotype Control PE (Product # 12-4301-82) (left) or 0.03 µg of Anti-Mouse CD366 (TIM3) PE (right). Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14) were used for analysis.

Immunohistochemistry (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Cutting edge: atopy promotes Th2 responses to alloantigens and increases the incidence and tempo of corneal allograft rejection.</b></p> <p>Authors: Beauregard C,Stevens C,Mayhew E,Niederkorn JY</p>	<p>Year</p> <p>2005</p>
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Flow Cytometry (10)

<p>Oncoimmunology</p> <p><b>PD-1 and LAG-3 blockade improve anti-tumor vaccine efficacy.</b></p> <p>"Published figure using CD366 (TIM3) monoclonal antibody (Product # 12-5871-82) in Flow Cytometry"</p> <p>Authors: Zahm CD,Moseman JE,Delmastro LE,G Mcneel D</p>	<p>Year</p> <p>2021</p>
<p>Cancer cell</p> <p><b>Fc Effector Function Contributes to the Activity of Human Anti-CTLA-4 Antibodies.</b></p> <p>"12-5871 was used in Flow cytometry/Cell sorting to examine the importance of Fc-gamma receptor binding in contributing to the activity of anti-CTLA4 antibodies."</p> <p>Authors: Arce Vargas F,Furness AJS,Litchfield K,Joshi K,Rosenthal R,Ghorani E,Solomon I,Lesko MH,Ruef N,Roddie C,Henry JY,Spain L,Ben Aissa A,Georgiou A,Wong YNS,Smith M,Strauss D,Hayes A,Nicol D,O'Brien T,Mårtensson L,Ljungars A,Teige I,Frendéus B,Pule M,Marafioti T,Gore M,Larkin J,Turajlic S,Swanton C,Peggs KS,Quezada SA</p>	<p>Year</p> <p>2018</p> <p>Species</p> <p>Mouse</p>

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Cutting edge: T cell Ig mucin-3 reduces inflammatory heart disease by increasing CTLA-4 during innate immunity.</b></p> <p>Authors: Frisancho-Kiss S,Nyland JF,Davis SE,Barrett MA,Gatewood SJ,Njoku DB,Cihakova D,Silbergeld EK,Rose NR,Fairweather D</p>	<p>Year</p> <p>2006</p>
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