

CD366 (TIM3) Monoclonal Antibody (RMT3-23), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMT3-23
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2744892

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	10 Publications

Product Specific Information

Description: The RMT3-23 monoclonal antibody reacts with mouse CD366 (TIM3), a Th1-specific cell surface protein. The RMT3-23 antibody reacts with CD366 protein expressed by both BALB/c and C57BL/6 strains of mice. CD366, a type I transmembrane protein, 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 cells, but is absent on CD4⁺Th2 and CD8⁺Tc2 cells. Other hematopoietic cell types, including naive T cells, B cells, macrophages and dendritic cells, do not express CD366, at least at the protein level. CD366 expression 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.

Applications Reported: This RMT3-23 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RMT3-23 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

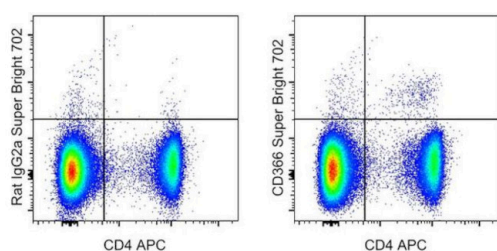
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 (RMT3-23), Super Bright™ 702, eBioscience™



CD366 (TIM3) Antibody (67-5870-82) in Flow

BALB/c mouse splenocytes were stained with CD4 Monoclonal Antibody, APC (Product # 17-0042-83) and 0.25 μ g of Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or 0.25 μ g of CD366 Monoclonal Antibody, Super Bright 702 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

[View more figures on thermofisher.com](#)

10 References

Flow Cytometry (10)

Nature metabolism

Extracellular acidosis restricts one-carbon metabolism and preserves T cell stemness.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 67-5870-82) in Flow Cytometry"

Authors: Cheng H, Qiu Y, Xu Y, Chen L, Ma K, Tao M, Frankiw L, Yin H, Xie E, Pan X, Du J, Wang Z, Zhu W, Chen L, Zhang L, Li G

Year
2023

Biology

TIM3 Expression in Anaplastic-Thyroid-Cancer-Infiltrating Macrophages: An Emerging Immunotherapeutic Target.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 67-5870-82) in Flow Cytometry"

Authors: Palacios LM, Peyret V, Viano ME, Geysels RC, Chocobar YA, Volpini X, Pellizas CG, Nicola JP, Motran CC, Rodríguez-Galan MC, Fozzatti L

Year
2022

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