

CD366 (TIM3) Monoclonal Antibody (RMT3-23), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMT3-23
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2744804

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	11 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.

RMT3-23 has been shown to have functional activity; blocks DC recognition of apoptotic cells and also induces autoantibody production.

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 can 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.

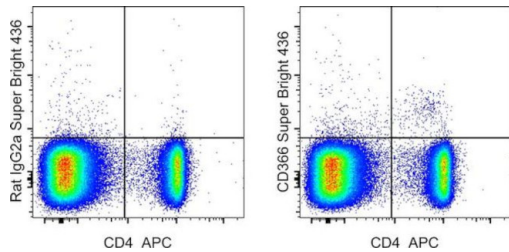
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



CD366 (TIM3) Antibody (62-5870-82) in Flow

Staining of BALB/c splenocytes with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 0.25 µg of Rat IgG2a K Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 0.25 µg of CD366 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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

11 References

Flow Cytometry (11)

Nature communications

Sequence-based drug design as a concept in computational drug design.

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 62-5870-82) in Flow Cytometry"

Authors: Chen L, Fan Z, Chang J, Yang R, Hou H, Guo H, Zhang Y, Yang T, Zhou C, Sui Q, Chen Z, Zheng C, Hao X, Zhang K, Cui R, Zhang Z, Ma H, Ding Y, Zhang N, Lu X, Luo X, Jiang H, Zhang S, Zheng M

Year
2023

Nature metabolism

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

"Published figure using CD366 (TIM3) monoclonal antibody (Product # 62-5870-82) 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

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