

# CD366 (TIM3) Monoclonal Antibody (RMT3-23), Brilliant Violet™ 650, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Brilliant Violet™ 650, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMT3-23
Conjugate	Brilliant Violet™ 650
Excitation/Emission Max	407/646 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_2925701

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

## 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. ^M

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

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**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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. ^M

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Brilliant Violet™ 650 (BV650) is a tandem dye that emits at 649 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome. ^M

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When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.^M

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

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Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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.^M

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Our internal testing suggests that Brilliant Violet™ 650 (BV650) is not compatible with methanol-based fixation.^M

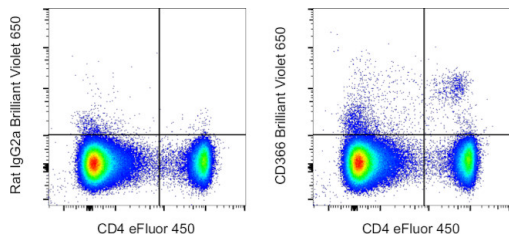
^M

Excitation: 407 nm; Emission: 649 nm; Laser: Violet Laser.^M

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### Product Images For CD366 (TIM3) Monoclonal Antibody (RMT3-23), Brilliant Violet™ 650, eBioscience™



#### CD366 (TIM3) Antibody (416-5870-80) in Flow

BALB/c mouse splenocytes were stained with CD4 Monoclonal Antibody, eFluor 450 (Product # 48-0042-82) and 0.25 µg of Rat IgG2a kappa Isotype Control, Brilliant Violet 650 (Product # 416-4321-81) (left) or 0.25 µg of CD366 (TIM3) Monoclonal Antibody, Brilliant Violet 650 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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