

Product datasheet for **TA386241**

Timd2 Rat Monoclonal Antibody [Clone ID: RMT2-14]

Product data:

Product Type: Primary Antibodies

Clone Name: RMT2-14

Applications: BI, FC, FN, IHC, WB

Reactivity: Mouse

Host: Rat

Isotype: IgG2a, lambda

Clonality: Monoclonal

Immunogen: This antibody was raised by immunising Sprague Dawley rats with TIM-2-Ig consisting of the extracellular domain (aa 1-230 of mouse TIM-2) and the Fc portion of mouse IgG2a, emulsified in complete Freund's adjuvant and then fusing lymph node cells from the immunized rats with P3U1 myeloma cells.

Specificity: This antibody is specific for murine TIM-2, a transmembrane protein that is expressed on activated T cells and preferentially on differentiated Th2 cells. A blockade of TIM-2/TIM-2 ligand interaction results in T cell hyperproliferation and Th2 cytokine production. TIM-2 plays a critical role in the development of atopic disease and other Th2-biased immune responses.

This antibody has been used in various FACS analyses, for instance, to evaluate the expression of TIM family members on mouse mast cells (Nakae et al, 2007) and to block the H-ferritin binding to TIM-2/L5178Y cells (Kawamoto et al, 2011). This antibody has been used in FACS and immunohistochemistry analyses to show that TIM-2 is expressed on mouse fetal hepatocytes (Watanabe et al, 2007). This antibody has also been used in Western Blots and for blocking experiments in ferritin binding analysis, which suggests that Tim-2 is the H-ferritin receptor on oligodendrocytes (Todorich et al, 2008). In addition, this antibody has been used in collagen-induced arthritis (CIA) models to determine whether TIM-2 contributes to the development of T helper (Th) 1 or Th17 cells and joint inflammation (Kawamoto et al, 2011).

Formulation: PBS with 0.02% Proclin 300.

Concentration: lot specific

Conjugation: Unconjugated



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Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	T cell immunoglobulin and mucin domain containing 2
Database Link:	Entrez Gene 171284 Mouse Q8R183
Synonyms:	AA816106; AU019358; AU019662; C781111; G9D3; TIM-2; Tim2