Datasheet: MCA5789GA

**Description:** RAT ANTI MOUSE TIM-2

**Specificity:** TIM-2

**Other names:** T-CELL IMMUNOGLOBULIN MUCIN 2

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** RMT2-25

**Isotype:** IgG2a

**Quantity:** 0.1 mg

**Applications**

<table>
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<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species**

Mouse

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Carrier Free**

Yes

**Approx. Protein Concentrations**

IgG concentration 1 mg/ml

**Immunogen**

Tim-2-Ig, consisting of amino acids 1-230 of mouse Tim-2, coupled with the Fc portion of mouse...
Lymph node cells from immunised Sprague Dawley rats were fused with cells of the P3U1 myeloma cell line.

Rat anti Mouse TIM-2 antibody, clone RMT2-25 recognizes mouse Tim-2 (T-cell immunoglobulin mucin 2), a transmembrane glycoprotein and member of the immunoglobulin superfamily, expressed by activated lymphocytes, developmentally in the 8-cell embryo and blastocyst, and preferentially up-regulated in Th2 cells and down-regulated in Th1 cells.

Tim-2 acts as a negative regulator of Th2 cells, and is implicated to play a critical role in the development of atopic disease and other Th2-biased immune responses. Tim-2 also acts as a receptor for Semaphorin 4A, a transmembrane protein expressed on dendritic cells and B cells, which plays a role in the guidance of axonal migration during neuronal development, and has been shown to enhance T cell activation.

Studies using Rat anti Mouse TIM-2 antibody, clone RMT2-25 in mouse, have shown that signaling by Tim-2 can influence the proliferation and antibody production of B cells, during early phase collagen-induced arthritis (Kawamoto et al. 2011). Rat anti Mouse TIM-2 antibody, clone RMT2-25 has been shown to significantly enhance the proliferation of stimulated splenic B cells in vitro (Kawamoto et al. 2011).

Flow Cytometry
Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

Western Blotting
Clone RMT2-25 recognises a band of approximately 55kDa in Tim-2/L5178Y cells under non-reducing conditions.

References

Further Reading

Storage
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
18 months from date of despatch.
**Recommended Products**

**Recommended Secondary Antibodies**

- Rabbit Anti Rat IgG (STAR17...)  
  FITC
- Goat Anti Rat IgG (STAR69...)  
  FITC
- Goat Anti Rat IgG (STAR131...)  
  Alk. Phos., Biotin
- Goat Anti Rat IgG (STAR73...)  
  RPE
- Rabbit Anti Rat IgG (STAR21...)  
  HRP
- Goat Anti Rat IgG (STAR72...)  
  HRP
- Rabbit Anti Rat IgG (STAR16...)  
  DyLight®800
- Goat Anti Rat IgG (MOUSE ADSORBED) (STAR17...)  
  DyLight®800

**Recommended Negative Controls**

- RAT IgG2a NEGATIVE CONTROL (MCA1212)

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