

## TIM-2 (RMT2-1): sc-53770

### BACKGROUND

CD4<sup>+</sup> T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells and their associated cytokines are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions. Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. T cell Ig- and Mucin-domain-containing molecules (TIMs) are a family of molecules expressed on T cells. TIM-2 inhibits T cell activation *in vitro* and T cell-mediated disease *in vivo*. TIM-2 is expressed preferentially in differentiated Th2 cells, and is critical for the negative regulation of Th2 responses during autoimmune inflammation. Further understanding of the mechanisms by which TIM-2 regulates Th2-effector activity may provide insight into the therapeutic modulation of immune-mediated diseases.

### REFERENCES

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### STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### CHROMOSOMAL LOCATION

Genetic locus: Timd2 (mouse) mapping to 11 B1.1.

### SOURCE

TIM-2 (RMT2-1) is a rat monoclonal antibody raised against TIM-2 of mouse origin.

### PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

TIM-2 (RMT2-1) is recommended for detection of TIM-2 of mouse origin by flow cytometry (1 µg per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for TIM-2 siRNA (m): sc-72003, TIM-2 shRNA Plasmid (m): sc-72003-SH and TIM-2 shRNA (m) Lentiviral Particles: sc-72003-V.

Molecular Weight of TIM-2: 34 kDa.

### SELECT PRODUCT CITATIONS

1. Fan, K., Jia, X., Zhou, M., Wang, K., Conde, J., He, J., Tian, J. and Yan, X. 2018. Ferritin nanocarrier traverses the blood brain barrier and kills glioma. *ACS Nano* 12: 4105-4115.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.