

Datasheet: MCA5791GA

BATCH NUMBER 163606

Description:	RAT ANTI MOUSE TIM-4		
Specificity:	TIM-4		
Other names:	T-CELL IMMUNOGLOBULIN MUCIN 4		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	RMT4-54		
Isotype:	IgG2a		
Quantity:	0.1 mg		

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			1/25 - 1/200
Immunohistology - Frozen				
Immunohistology - Paraffin	•			
ELISA				
Immunoprecipitation				
Western Blotting				
Immunofluorescence	•			

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 tis supernatant	sue culture
Buffer Solution	Phosphate buffered saline	
Preservative	0.09% Sodium Azide	

Stabilisers			
Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	Tim-4-Ig, consisting of amino acids 1-288 of mouse Tim-4, coupled with the Fc portion of mouse IgG2a.		
External Database Links	UniProt: Q6U7R4 Related reagents		
	Entrez Gene: 276891 Timd4 Related reagents		
Synonyms	Tim4		
Fusion Partners	Lymph node cells from immunised SD rats were fused with cells of the P3U1 myeloma cell line.		
Specificity	Rat anti Mouse TIM-4 antibody, clone RMT4-54 recognizes mouse Tim-4 (T-cell immunoglobulin mucin 4), a transmembrane glycoprotein and member of the immunoglobulin superfamily, exclusively expressed by antigen-presenting cells, which acts as the natural ligand of Tim-1, involved in T-cell expansion and cytokine production.		
	Tim-4 is necessary for the phagocytosis of apoptotic cells by peritoneal macrophages (Nishi et al. 2014) and interaction between Tim-1 on Th2 cells and Tim-4 on DCs, enhances Th2 cell function. The TIM-4 gene locus is associated with predisposition to asthma in both mice and humans and may be considered as a candidate disease gene for asthma.		
	Rat anti Mouse TIM-4 antibody, clone RMT4-54 inhibits the efficient <i>in vitro</i> phagocytosis of apoptotic cells by resident peritoneal Mac1 ⁺ cells), but not inflammatory peritoneal exudate Mac1 ⁺ cells (Nakayama et al. 2009).		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.		
Histology Positive Control Tissue	Mouse spleen		
Further Reading	1. Freeman, G.J. et al. (2010) TIM genes: a family of cell surface phosphatidylserine		

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for	
short term use (up to 4 weeks) and store the remaining aliquots at -20°C.	

This product is shipped at ambient temperature. It is recommended to aliquot and store at

receptors that regulate innate and adaptive immunity. <u>Immunol Rev. 235 (1): 172-89.</u>

Storage

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5791GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

Rabbit Anti Rat IgG (STAR17...)

FITC

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR72...) HRP

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) DyLight®650, DyLight®800

Rabbit Anti Rat IgG (STAR21...) HRP

Rabbit Anti Rat IgG (STAR16...) DyLight®800

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL (MCA1212)

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M381254:210512'

Printed on 18 Jan 2024

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