

Datasheet: MCA6407GA

BATCH NUMBER 162045

Description:	MOUSE ANTI CHICKEN TIM-4
Specificity:	TIM-4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	ROS-JH9
Isotype:	IgG1
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	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Chicken
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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant chicken TIM-4 extracellular domain (amino acids 1–209) fused to chicken

IgFc region

Fusion Partners Spleen cells from immunised BALB/c mice were fused with Sp2/0-Ag14 mouse myeloma cells

Specificity **Mouse anti Chicken TIM-4 antibody, clone ROS-JH9**, recognizes chicken TIM-4 (T-cell immunoglobulin mucin 4).

In mice, TIM-4 is largely expressed on antigen-presenting cells and involved in phagocytosis of apoptotic cells with, additionally, a regulatory role in T-cell responses. In chickens, the gene for TIM-4 codes for a minimum of five splice variants that vary between strains. Myeloid antigen-presenting cells and $\gamma\delta$ T cells express *chTIM4*; in contrast to mammalian T cells which do not express *TIM-4* ([Hu et al. 2016](#)).

Research conducted by Hu *et al.* using Mouse anti Chicken TIM-4 antibody, clone ROS-JH9, revealed that it can detect all isoforms of chicken TIM-4. Clone ROS-JH9 was found to stain bone marrow macrophages from J line birds, a cell population that was also positive for clone KUL01 [MCA5770](#) ([Hu et al. 2016](#)). Further work characterized a distinct TIM-4 bearing set of phagocytes in the bursa and showed that approximately 50% of blood monocytes in chicken express detectable levels of TIM-4 ([Hu et al. 2019](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at $2-8^{\circ}\text{C}$ for short term use (up to 4 weeks) and store the remaining aliquots at -20°C .

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/MCA6407GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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