

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

Fusion Partners	Spleen cells from immunised BALB/c mice were fused with Sp2/0-Ag14 mouse myeloma cells
Specificity	<p>Mouse anti Chicken TIM-4 antibody, clone ROS-JH9, recognizes chicken TIM-4 (T-cell immunoglobulin mucin 4).</p> <p>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 <i>chTIM4</i>; in contrast to mammalian T cells which do not express <i>TIM-4</i> (Hu et al. 2016).</p> <p>Research conducted by Hu <i>et al.</i> 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).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
References	1. Härtle, S. <i>et al.</i> (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry. Front Vet Sci. 11: 1385400.
Further Reading	1. Hu, T. <i>et al.</i> (2019) Characterization of Subpopulations of Chicken Mononuclear Phagocytes That Express TIM4 and CSF1R. J Immunol. 202 (4): 1186-1199.
Storage	<p>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°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
 Goat Anti Mouse IgG (STAR76...) [RPE](#)
 Goat Anti Mouse IgG (STAR70...) [FITC](#)
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
 Goat Anti Mouse IgG (STAR77...) [HRP](#)
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

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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
 'M404550:220901'

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