

Datasheet: MCA470

Description:	MOUSE ANTI CHICKEN TROPONIN T
Specificity:	TROPONIN T
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	T1/61
Isotype:	IgG1
Quantity:	0.25 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			▪	
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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Chicken

Species Cross Reactivity

Reacts with: Human, Quail
Does not react with: Rabbit

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

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	Troponin T, purified from chicken breast muscle
External Database Links	<p>UniProt: P12620 Related reagents</p> <p>Entrez Gene: 395761 TNNT3 Related reagents</p>
RRID	AB_2206754
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Chicken Troponin T antibody, clone T1/61 recognizes chicken Troponin T, fast skeletal muscle isoforms, also known as fast muscle Troponin T. Troponin T is a 262 amino acid tropomyosin binding component of the troponin complex with a predicted molecular mass of ~31 kDa.</p> <p>Four isoforms of Troponin T generated by alternative splicing have been described. Mouse anti Chicken Troponin T antibody, clone T1/61 recognizes the canonical isoform 1, binding to othe potential isoforms has not been evaluated (UniProt : P12620).</p>
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
Histology Positive Control Tissue	Skeletal muscle
References	<ol style="list-style-type: none"> Bird, I.M. <i>et al.</i> (1985) Identification of multiple variants of fast muscle troponin T in the chicken using monoclonal antibodies. Eur J Biochem. 150 (3): 517-25. Watkins, H. <i>et al.</i> (1996) Expression and functional assessment of a truncated cardiac troponin T that causes hypertrophic cardiomyopathy. Evidence for a dominant negative action. J Clin Invest. 98: 2456-61. Marian, A.J. <i>et al.</i> (1997) Expression of a mutant (Arg92Gln) human cardiac troponin T, known to cause hypertrophic cardiomyopathy, impairs adult cardiac myocyte contractility. Circ Res. 81: 76-85. Dunnick, J.K. <i>et al.</i> (2004) Cardiac damage in rodents after exposure to bis(2-

chloroethoxy)methane. [Toxicol Pathol. 32: 309-17.](#)

5. Herman, E.H. *et al.* (1999) Correlation between serum levels of cardiac troponin-T and the severity of the chronic cardiomyopathy induced by doxorubicin. [J Clin Oncol. 17: 2237-43.](#)

6. Zhang, J. *et al.* (2008) Isoproterenol-induced cardiotoxicity in sprague-dawley rats: correlation of reversible and irreversible myocardial injury with release of cardiac troponin T and roles of iNOS in myocardial injury. [Toxicol Pathol. 36: 277-8.](#)

7. Sweeney, H.L. *et al.* (1998) Functional analyses of troponin T mutations that cause hypertrophic cardiomyopathy: insights into disease pathogenesis and troponin function. [Proc Natl Acad Sci U S A. 95: 14406-10.](#)

8. Zhang, J. *et al.* (2006) Mechanisms and biomarkers of cardiovascular injury induced by phosphodiesterase inhibitor III SK&F 95654 in the spontaneously hypertensive rat. [Toxicol Pathol. 34: 152-63.](#)

9. Baharom, F. *et al.* (2016) Dendritic Cells and Monocytes with Distinct Inflammatory Responses Reside in Lung Mucosa of Healthy Humans. [J Immunol. 196 \(11\): 4498-509.](#)

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°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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC

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