

Datasheet: MCA470

BATCH NUMBER 159202

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|----------------------|-------------------------------|
| 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

UniProt:
[P12620](#) [Related reagents](#)

Entrez Gene:
[395761](#) TNNT3 [Related reagents](#)

RRID AB_2206754

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Specificity **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.

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](#)).

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

1. Watkins, H. *et al.* (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.](#)
2. Marian, A.J. *et al.* (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.](#)
3. 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.](#)

4. 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.](#)

5. Dunnick, J.K. *et al.* (2004) Cardiac damage in rodents after exposure to bis(2-chloroethoxy)methane. [Toxicol Pathol. 32: 309-17.](#)

6. 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.](#)

7. 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.](#)

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: <https://www.bio-rad-antibodies.com/SDS/MCA470>
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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
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 (STAR9...) [FITC](#)

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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
'M383072:210513'

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