

Datasheet: MCA1208

Description:	MOUSE ANTI HUMAN TROPONIN I (CARDIAC)
Specificity:	TROPONIN I (CARDIAC)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10F4 (110)
Isotype:	IgG2a
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 (1)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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.

(1) [Zhang et al. 2008](#).

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Goat, Cat, Rabbit, Bovine, Dog, Pig N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Human Cardiac troponin I.

**External Database
Links**

UniProt:

[P19429](#) [Related reagents](#)

Entrez Gene:

[7137](#) TNNI3 [Related reagents](#)

Synonyms

TNNC1

RRID

AB_2303604

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 mouse myeloma cell line.

Specificity

Mouse anti Human Troponin I (Cardiac) antibody, clone 10F4 (110) recognizes aa 34-37 of Troponin I from human heart. There is no cross-reactivity with skeletal muscle troponin I.

References

1. 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 \(1\): 76-85.](#)
2. 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.](#)
3. Filatov, V.L. *et al.* (1998) Epitope mapping of anti-troponin I monoclonal antibodies. [Biochem Mol Biol Int. 45 \(6\): 1179-87.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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