

ABfinity™ Troponin I Recombinant Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number: 701585

Pub. No. MAN0010205 Rev. 1.00

Clonality: Monoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human Troponin	Reactive Species: Human, Rat, Mouse	

Product description

Troponin is a protein complex made up of three subunits (troponin C, troponin I, and troponin T) which regulate muscle contraction via calcium binding. The troponin I subunit is specifically involved in actin and myosin crossbridge formation. Troponin is expressed in the thin filaments of skeletal and cardiac muscle.

Product specifications

Predicted Reactivity:	Rabbit, Monkey, Bovine
Alternate Names:	CMH7, RCM1, cTnI, CMD2A, TNNC1, CMD1FF
Gene ID:	7137, 21954, 29248
Protein Accession No.:	P19429
Sequence Identity:	Human
Sequence Homology:	Human, Rat, Mouse
Clone/PAD:	1H11L19
Isotype:	IgG
Lot:	See product label

Product applications

The antibody has been used in western blotting, ELISA, and immunocytochemistry applications. Other applications may work but have not been tested.

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long-term storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

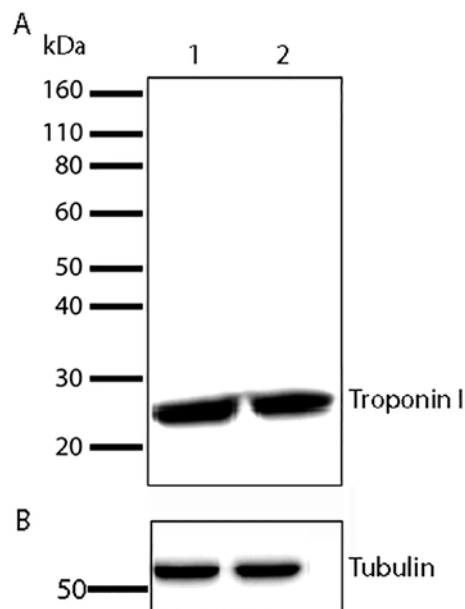


Figure 1 Western blot analysis of ABfinity™ Troponin I Recombinant Rabbit Monoclonal Antibody (Cat. no. 701549).

Western blot analysis was performed on 30 µg each of rat heart (Lane 1) or mouse heart (Lane 2) tissue lysates. Endogenous Troponin I was detected at ~26 kDa using ABfinity™ Troponin I Recombinant Rabbit Monoclonal Antibody at a concentration of 0.5 µg/mL. A rabbit anti-tubulin antibody was blotted as a loading control. The blots were developed using chemiluminescence (ECL) method with a goat anti-rabbit HRP secondary antibody (Cat no. G21234).

Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

Product documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Important licensing information

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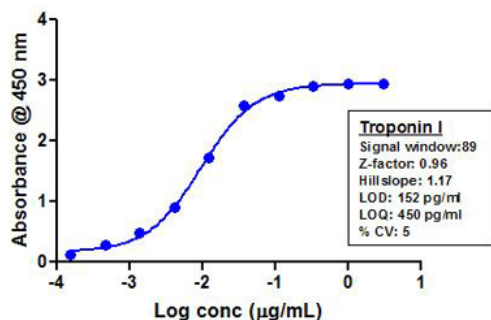


Figure 2 Indirect ELISA analysis of ABfinity™ Troponin I Recombinant Rabbit Monoclonal Antibody (Cat. no. 701549).

Indirect ELISA was performed with various dilutions of ABfinity™ Troponin I Recombinant Rabbit Monoclonal Antibody (Cat. no. 701549) to detect Troponin I conjugated peptide coated onto the plate using a goat anti-rabbit HRP secondary antibody. A non-linear regression analysis (4 PL) was performed and LOD and LOQ for the antibody was determined.

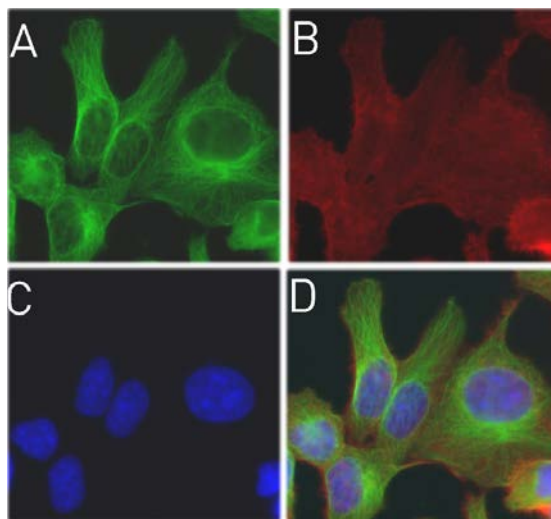


Figure 3 Immunocytochemistry analysis of ABfinity™ Troponin I Recombinant Rabbit Monoclonal Antibody (Cat. no. 701549).

Immunocytochemistry analysis of HeLa cells stained with Troponin I ABfinity™ Recombinant Rabbit Monoclonal Antibody using a: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). b: Phalloidin was used to stain the cytoskeleton (red). c: DAPI stained HeLa nuclei (blue). d: Composite image of cells showing cytoplasmic localization of Troponin I.

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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