

Mouse TROPONIN I Monoclonal Antibody | anti-TNNI3 antibody

MOUSE ANTI HUMAN TROPONIN I (CARDIAC/PHOSPHORYLATED)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49541	Mouse	Bovine, Cat, Dog, Goat, Pig, Rat N.B Antibody reactivity and working conditions may vary between species.	Western Blot, ELISA

PRODUCT SYNONYMS

TROPONIN I; Monoclonal Antibody; MOUSE ANTI HUMAN TROPONIN I (CARDIAC/PHOSPHORYLATED); TNNC1; anti-TNNI3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Bovine, Cat, Dog, Goat, Pig, Rat N.B Antibody reactivity and working conditions may vary between species.
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	1G11
Form/Format	Purified IgG - liquid
Concentration	IgG concentration 1 mg/ml (varies by lot)
Sequence Length	210
Applicable Applications for anti-TNNI3 antibody	WB (Western Blot), ELISA
Perservative Stabilisers	0.09% Sodium Azide
Immunogen	Phosphorylated form of human cardiac Troponin I.
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 mouse myeloma cell line.
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation	Purified IgG prepared by affinity chromatography on protein A from tissue culture supernatant
Preparation and Storage	Store at 4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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. Shelf Life: 18 months from date of despatch.

ADDITIONAL INFORMATION

Related Product Information for anti-TNNI3 antibody	Mouse anti Human Troponin I (Cardiac/Phosphorylated) antibody, clone 1G11 recognizes the phosphorylated form of human cardiac Troponin I (cTnI). Troponin I is a 24kDa subunit of Troponin, a protein found on muscle tissue responsible for muscle contraction. When calcium binds to Troponin C, a conformational change moves Troponin I and tropomyosin out of the way of the myosin binding sites on the actin filaments in muscles. This allows cross-bridging to occur and the muscle to contract. Levels of cTnI in serum are commonly used as a marker for cardiac cell damage and death. Phosphorylation of cTnI results in changes in the activity and function of Troponin. One possible form of phosphorylation is by Protein kinase A. Protein kinase A phosphorylation of serine 22 and serine 23 reduces calcium sensitivity of Troponin and leads to an acceleration in relaxation. Changes in cTnI phosphorylation have been reported in failing hearts. Mouse anti Human Troponin I (Cardiac/Phosphorylated) antibody, clone 1G11 recognizes free cTnI and cTnI in complex with other Troponin components. It does not cross-react with skeletal Troponin I.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
NCBI GenBank Nucleotide #	NM_000363.4
UniProt Accession #	P19429
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I type 3 (cardiac)
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
NCBI Protein Information	troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive)
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1
UniProt Entry Name	TNNI3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/troponin-i-antibody-clone-1g11-western-blot-elisa/49541>