

Cardiac Troponin I Recombinant Antibody | cTnI recombinant antibody

Anti-Cardiac Troponin I [scFv 180]

CATALOG # AAA72031	REACTIVITY Human	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

Cardiac Troponin I; Monoclonal Recombinant Antibody; Anti-Cardiac Troponin I [scFv 180]; TNNI3; cTn-I; scFv 180; cTnI recombinant antibody

PRODUCT SPECIFICATIONS

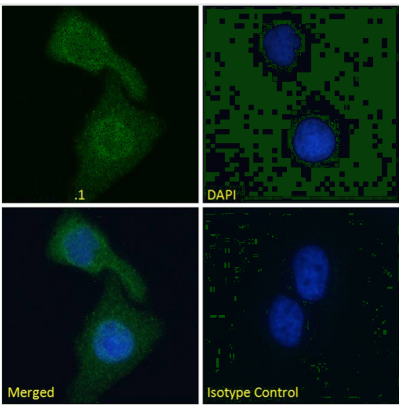
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG lambda
Clone Number	scFv 180
Specificity	This antibody binds specifically to the cardiac Troponin I Peptide KISASRKLQLKT. This epitope is 100% conserved among a great variety of mammalian species, including most monkeys, Squirrel, Hamster, Mouse, Rat, Rabbit, Whales, Mole-Rat, Antelope and several other mammals.
Purity/Purification	Protein A Affinity Purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Sequence Length	210
Applicable Applications for cTnI recombinant antibody	SPR (Surface Plasmon Resonance), WB (Western Blot)
Antibody Type	Recombinant Antibody
Antibody Species	Rabbit
Original Species Name	Chicken
Immunogen	Cardiac Troponin I peptide (KISASRKLQLKT).
Chimeric Use Statement	This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Chicken scFv format, for improved compatibility with existing reagents, assays and techniques.
Clone Note	Troponin I is the inhibitory subunit of troponin, the thin filament complex that confers calcium-sensitivity to muscle-actomyosin ATPase activity. Cardiac Troponin I in the blood is also a marker for several heart muscle damages including myocardial infarction.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

Western Blot using anti-Cardiac Troponin I antibody scFv 180 Human heart lysate (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric mouse IgG1 version of scFv 180 at 0.001 ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The predicted running size for Cardiac Troponin I is 24.0 kDa. It successfully detected Cardiac Troponin I in human heart lysate.



IF (Immunofluorescence)

Immunofluorescence staining of fixed HeLa cells with anti-Cardiac Troponin I antibody scFv 180 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of scFv 180 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for cTnI recombinant antibody	Recombinant monoclonal antibody to Cardiac Troponin I. Manufactured using the recombinant platform with variable regions (i.e. specificity) from the scFv scFv 180.
Product Categories/Family for cTnI recombinant antibody	Physiology; Cardiac Diseases; Biomarker; Surgery & Transplantation; Sepsis; Neurology
References	Conroy et al. Reconciling the structural attributes of avian antibodies. Journal of Biological Chemsitry 2014; 289(22):15384-15392 PMID:24737329 Original Published Journal: Journal of Biological Chemsitry 2014; 289(22):15384-15392 Original Published Journal: Journal of Biological Chemsitry 2014; 289(22):15384-15392 Publication Note: Describes the use of phage display libraries to generate chicken antibodies against human cardiac troponin and PSA with subsequent crystallisation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
NCBI GenBank Nucleotide #	NP_000354.4
UniProt Accession #	P19429
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I3, cardiac type
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1

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://stage.aaabiotech.com/monoclonal/cardiac-troponin-i-recombinant-antibody-clone-scfv-180-surface-plasmon-resonance-western-blot-elisa/72031>