Anti-Cardiac Troponin I [scFv 180] Standard Size Ab00434-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This full-length, chimeric human antibody was made using the variable domain sequences of the original Chicken scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda
Clone Number: scFv 180
Alternative Name(s) of Target: TNNI3; cTnI; cTn-I
UniProt Accession Number of Target Protein: P19429
Published Application(s): SPR, WB
Published Species Reactivity: Human
Immunogen: Cardiac Troponin I peptide (KISASRKLQLKT).
Specificity: This antibody binds specificially 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.
Application Notes: Troponin I is the inhibitory subunit of troponin, the thin filament complex that confers calcium-sensitivity to muscle-actomyoisin ATPase activity. Cardiac Troponin I in the blood is also a marker for several heart muscle damages including myocardial infarction.
Antibody First Published in: Conroy et al. Reconciling the structural attributes of avian antibodies. Journal of Biological Chemsitry 2014; 289(22):15384-15392 PMID:24737329
Note on publication: Describes the use of phage display libraries to generate chicken antibodies against human cardiac troponin and PSA with subsequent crystallisation.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In:

PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.