

## Anti-Cardiac Troponin I [scFv 180] Standard Size Ab00434-10.0

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, 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 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.

**Application Notes:** 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.

**Antibody First Published in:** Conroy et al. Reconciling the structural attributes of avian antibodies. Journal of Biological Chemistry 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 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**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.