

## Product Datasheet

**Name:** Mouse Anti- Cardiac Troponin I-C (cTnI) Monoclonal Antibody

**Description:** Hybridoma clones have been derived from hybridization of myeloma cells with spleen cells of BALB/c mouse immunized with recombinant human Cardiac Troponin I-C.

| Catalog No. | Isotype | Clone | Unit | Buffer           |
|-------------|---------|-------|------|------------------|
| V3501       | IgG1    | 5D12K | mg   | 10mM PBS (pH7.4) |

**Specificity:** Mabs react with antigen human Cardiac Troponin I-C

**Host:** Mouse

**Clonality:** Monoclonal

**Format:** Liquid

**Concentration:** ≥1mg/ml

**Purification:** ≥90% (SDS-PAGE)

**Preservative:** 0.1%Proclin300

**Application:** Recommended for sandwich immunoassays in ELISA and CLIA. Each laboratory should determine an optimum working titer for use in its particular application.

Best pairs for cTnI-C complex immunodetection (capture-detection): V3201 & V3501

**Storage:** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Troponin I is a cardiac and skeletal muscle protein useful in the laboratory diagnosis of heart attack. Troponin I is a part of the troponin protein complex, where it binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it, myosin cannot bind actin in relaxed muscle. When calcium binds to the troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle.

**Note:** This product as supplied is intended for research or further manufacturing use only.