

Anti-h cTnT 3710 SPTN-5

Product overview

| | |
|-------------------------|---|
| Catalog number | 100698 |
| Specificity | Antibody recognizes human cardiac troponin T (cTnT) |
| Description | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components. |
| Product buffer solution | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative |
| Shelf life and storage | Unspecified, storage at 2–8 °C |
| Subclass | IgG ₁ |
| Analyte description | Troponins form a complex of three regulatory proteins (troponin C, I and T) that are integral to muscle contraction in skeletal and cardiac muscles. Serum cardiac troponin tests can be used to help diagnose several different heart disorders, especially myocardial infarction. |

Parameters tested on each lot

| | |
|-----------------------|--|
| Product appearance | Liquid, may turn slightly opaque during storage |
| Product concentration | 5.0 mg/ml (+/- 10 %) |
| Immunoreactivity | 80–120 % compared to the reference sample in an FIA test |
| IEF Profile | 6.5–7.0 |
| Purity | ≥ 95 % |

Kinetic parameters

| | |
|----------------------------|---|
| Association rate constant | 1.6×10^5 1/Ms |
| Dissociation rate constant | 1.6×10^{-4} 1/s |
| Affinity constant | $K_A = 9.8 \times 10^8$ 1/M; $K_D = 1.2 \times 10^{-9}$ M (= 1.23 nM) |
| Determination method | BLI (Octet RED96e) |
| Determination antigen | Recombinant cTnT, Medix Biochemica (Cat 610101) |



Legal disclaimer

Cross-reactivities Does not recognize skeletal troponin T (sTnT) or cardiac troponin I (cTnI).

Epitope Amino acids 139-152 (RIRNEREKERQNRL) of cardiac troponin T isoform 6.

Pair recommendations

| | | DETECTION | | | | | |
|---------|------|-----------|------|------|------|------|------|
| | | 3701 | 3703 | 3708 | 3710 | 3711 | 3712 |
| CAPTURE | 3701 | - | - | - | - | - | - |
| | 3703 | - | - | - | + | + | + |
| | 3708 | + | + | - | + | + | + |
| | 3710 | - | + | + | - | - | - |
| | 3711 | - | + | - | - | - | - |
| | 3712 | - | + | + | - | - | - |

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested FIA

Antigens tested Recombinant cardiac troponin T antigen, Medix Biochemica 610101, native cardiac troponin T antigen, Medix Biochemica 550-21 and LA149.

| Product stability | TEMPERATURE, TIME | RESULT |
|-------------------|-------------------|--------|
| | -70 °C, 21 days | OK |
| | -20 °C, 21 days | OK |
| | +4 °C, 21 days | OK |
| | +35 °C, 21 days | OK |
| | +45 °C, 7 days | OK |

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge, or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous -

References -

