

## Anti-h cTnT 3712 SPTN-5

### Product overview

Catalog number	100699
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 <sub>3</sub> as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG <sub>1</sub>
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	$1.5 \times 10^5$ 1/Ms
Dissociation rate constant	$1.3 \times 10^{-4}$ 1/s
Affinity constant	$K_A = 1.1 \times 10^9$ 1/M; $K_D = 1.2 \times 10^{-9}$ M (= 1.18 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, 7 days	OK
	+35 °C, 21 days	Minor charge alterations
	+45 °C, 3 days	Minor charge alterations
	+45 °C, 7 days	Minor charge alterations

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** -

