

Product specifications

Name	Anti-h cTnT 3712 SPTN-5
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 code	100699
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	18 months from manufacturing 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	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	N/D
Determination method	-
Determination antigen	-

Legal disclaimer



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

Epitope Amino acids 139-152 (RIRNEREKERQNL) 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 and native cardiac troponin T antigen, Lee Biosolutions 550-21.

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 -

