

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-h cTnI 9709 SPTN-5
<b>Specificity</b>	Antibody recognizes human cardiac troponin I (cTnI)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100524
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	Unspecified, storage at 2-8 °C
<b>Analyte description</b>	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

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80-120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	5.6 - 6.0
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>1</sub>
<b>Association rate constant</b>	$2.4 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$3.5 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 6.9 \times 10^9$ 1/M; $K_D = 1.4 \times 10^{-10}$ M (= 0.14 nM)
<b>Determination method</b>	SPR analysis (ProteOn XPR36)
<b>Determination antigen</b>	Human cardiac troponin I-T-C complex, HyTest (Cat 8T62, Lot 13/07)

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**Cross-reactivities**

Does not cross-react with skeletal troponin I (sTnI)

**Epitope**

In the N-terminal part of the cTnI molecule (residues 22–43)

**Pair recommendations****CAPTURE ANTIBODY**

9709  
9701, 9703

**DETECTION ANTIBODY**

9703  
9709

Please note that pair recommendations are based on results obtained by our laboratory using cardiac troponin complex (I-C) as an antigen. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

**Product stability****TEMPERATURE, TIME**

-70 °C, 21 days  
-20 °C, 21 days  
+4 °C, 21 days  
+35 °C, 21 days  
+45 °C, 7 days

**RESULT**

OK  
OK  
OK  
OK  
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**

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**References**

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