

## Product Datasheet

### Anti-h cTnI RC9750 SPTN-5 700050

<b>Product Name</b>	Anti-h cTnI RC9750 SPTN-5
<b>Catalog Number</b>	700050
<b>Description</b>	Recombinant chimeric antibody containing variable region from chicken IgY and constant region from human IgG1, cultured in vitro.
<b>Tested Applications</b>	LF, FIA
<b>Alternative Names</b>	Troponin
<b>Brand</b>	Medix Biochemica
<b>Form/Appearance</b>	Liquid, may turn slightly opaque during storage
<b>Concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Storage</b>	+2-8 °C
<b>Isotype</b>	human IgG1
<b>Clonality</b>	Monoclonal
<b>Epitope</b>	Conformational epitope aa 39-52 of cTnI
<b>Purity</b>	≥ 95 %
<b>Affinity constant</b>	$K_A = 3.1 \times 10^8$ 1/M; $K_D = 6.5 \times 10^{-9}$ M (= 6.5 nM)
<b>Buffer</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Cross Reactivity</b>	Does not cross-react with skeletal troponin I (sTnI) or troponin C (TnC)
<b>Specificity</b>	Antibody recognizes human cardiac troponin I (cTnI)
<b>Matched Pairs</b>	RC9750 is recommended as a very sensitive capture. The antibody pair (Capture-Detection) RC9750-9701 is especially recommended for both FIA and LF. For increased sensitivity, 2+1 or 2+2 antibody approach is recommended, for example capture: 9701/RC9701 & 9705, detection 9703 & 9707/RC9707.
<b>Shelf Life</b>	36 months
<b>References</b>	Kivi et al. HybriFree: a robust and rapid method for the development of monoclonal antibodies from different host species. BMC Biotechnol. 216 Jan 8; 16:2.