

## Anti-h Cystatin C 10004 SPTN-5

### Product overview

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<b>Catalog number</b>	100689
<b>Specificity</b>	Antibody recognizes human Cystatin C
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<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>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Cystatin C is an emerging renal biomarker. It is used for the diagnosis of chronic kidney disease. Cystatin C has also been associated with an increased risk of cardiovascular disease and heart failure.

### Parameters tested on each lot

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<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>	5.8–6.6
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$4.4 \times 10^5$ 1/Ms
<b>Dissociation rate constant</b>	$3.0 \times 10^{-5}$ 1/s
<b>Affinity constant</b>	$K_A = 1.6 \times 10^{10}$ 1/M; $K_D = 6.2 \times 10^{-11}$ M (= 0.06 nM)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Recombinant Cystatin C, Medix Biochemica, Cat 610100



#### Legal disclaimer

**Cross-reactivities** Does not recognize recombinant Cystatin D, F, S, SA, or SN.

**Epitope** N/D

**Pair recommendations**

		DETECTION			
		10001	10002	10004	10005
CAPTURE	10001	-	-	+	+
	10002	-	-	+	+
	10004	+	+	-	-
	10005	+	+	-	-

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 Cystatin C antigen, Medix Biochemica, 610100.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	Minor charge alterations
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 7 days	OK
+35 °C, 21 days	Reduced antigen binding
+45 °C, 3 days	OK
+45 °C, 7 days	Reduced antigen binding

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** -



**Legal disclaimer**