

## Anti-h NT-proBNP 1306 SPTN-5

### Product overview

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<b>Catalog number</b>	100521
<b>Specificity</b>	Antibody recognizes human N-terminal pro-B-type natriuretic peptide
<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>	18 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	The plasma concentrations of both the N-terminal fragment of Pro-B-type natriuretic peptide (NT-proBNP) and prohormone of brain natriuretic peptide (proBNP) are significantly increased in patients with asymptomatic and symptomatic left ventricular dysfunction.

### 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>	6.3–7.3
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	7.45 x 10 <sup>5</sup> 1/Ms	5.1 x 10 <sup>5</sup> 1/Ms
<b>Dissociation rate constant</b>	1.70 x 10 <sup>-4</sup> 1/s	5.5 x 10 <sup>-4</sup> 1/s
<b>Affinity constant</b>	K <sub>A</sub> = 4.4 x 10 <sup>9</sup> 1/M K <sub>D</sub> = 2.3 x 10 <sup>-10</sup> M (= 0.23 nM)	K <sub>A</sub> = 9.2 x 10 <sup>8</sup> 1/M K <sub>D</sub> = 1.7 x 10 <sup>-9</sup> M (= 1.7 nM)
<b>Determination method</b>	SPR-analysis (ProteOn XPR36)	BLI (Octet RED96e)
<b>Determination antigen</b>	NT-proBNP, HyTest (Cat 8NT2, Lot 14/07-8NT2)	Recombinant NT-proBNP, Medix Biochemica (Cat 610090)



#### Legal disclaimer

**Cross-reactivities** Does not recognize canine NT-proBNP (HyTest, 8CNT9).

**Epitope** Amino acids 12-28 (LETSGLQEQRNHLQGKL)

**Pair recommendations**

		DETECTION						
		1306/ RC1306	1307/ RC1307	1308	1309	1310	1311	1312
CAPTURE	1306 / RC1306	-	+	-	+	+	+	+
	1307/ RC1307	+	-	+	+	+	+	+
	1308	-	+	-	+	+	+	+
	1309	+	+	+	-	-	-	-
	1310	+	+	+	-	-	-	-
	1311	+	+	+	-	-	-	-
	1312	+	+	+	-	-	-	-

Following pairs are especially recommended for the below mentioned assays:

CLIA: 1306 (capture) – 1309 (detection), 1306 – 1311, 1306 – 1312, 1308 – 1309, 1308 – 1310, 1308 – 1311 and 1308 – 1312

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, LF, CLIA

**Antigens tested** Recombinant NT-proBNP antigen, Medix Biochemica 610090 and recombinant proBNP antigen Medix Biochemica 710017, 710042 and 710043.

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	OK
	+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** -



**Legal disclaimer**