

## Anti-h BNP 11904 SPTN-5

### Product overview

Catalog number	100970
Specificity	Antibody recognizes human B-type natriuretic peptide
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	Unspecified, storage at 2–8 °C
Subclass	IgG <sub>1</sub>
Analyte description	B-type natriuretic peptide (BNP) is a cardiac hormone released by the heart in response to ventricular myocardium wall stress. In patients with heart failure, BNP levels are elevated and assessed as important measures of cardiac function and diagnosis of heart failure.

### 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	6.1–6.6
Purity	≥ 95 %

### Kinetic parameters

Association rate constant	$9.6 \times 10^4$ 1/Ms
Dissociation rate constant	$7.4 \times 10^{-6}$ 1/s
Affinity constant	$K_A = 1.3 \times 10^{10}$ 1/M; $K_D = 8.4 \times 10^{-11}$ M (= 0.08 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Synthetic BNP, Proteogenix



#### Legal disclaimer

**Cross-reactivities** Does not recognize ANP or CNP.

**Epitope** C-terminal epitope in amino acid region 26-32.

**Pair recommendations**

		DETECTION		
		11904	11906	11908
CAPTURE	11904	-	+	+
	11906	+	-	-
	11908	+	-	-

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** Synthetic Brain Natriuretic Peptide-32 (BNP), Medix Biochemica 129-10 and synthetic BNP antigen, Medix Biochemica LA788.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	OK
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+35 °C, 21 days	OK
+45 °C, 7 days	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** -

**References** -

