

## Anti-h PTH 10705 SPTN-5

### Product overview

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<b>Catalog number</b>	101004
<b>Specificity</b>	Antibody recognizes human parathyroid hormone (PTH)
<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>	Parathyroid hormone is a peptide hormone secreted by the parathyroid glands that regulates the blood calcium and phosphate levels. PTH is routinely monitored for people with chronic kidney disease or who are on dialysis. Measurement of intact PTH is used to diagnose primary hyperparathyroidism and hypercalcemia.

### 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>	6.4–6.8
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	3.8 x 10 <sup>5</sup> 1/Ms
<b>Dissociation rate constant</b>	Does not dissociate under conditions used.
<b>Affinity constant</b>	Not applicable (N/A)
<b>Determination method</b>	BLI (Octet RED96e)
<b>Determination antigen</b>	Parathyroid Hormone (PTH) Antigen, Medix Biochemica (Cat 439-66)

**Legal disclaimer**

**Cross-reactivities** Not determined (N/D)

**Epitope** Within amino acids 39-84 of human PTH.

**Pair recommendations** Pair recommendations for PTH 3<sup>rd</sup> generation assay:

		DETECTION			
		10702	10704	10705	10750
CAPTURE	10702	N/D	+	+	+
	10704	+	N/D	N/D	N/D
	10705	+	N/D	N/D	N/D
	10750	-	N/D	N/D	N/D

Following pairs are especially recommended for the below mentioned assays:

FIA: 10702 (capture) – 10704 (detection) for 3<sup>rd</sup> generation PTH assay

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 Parathyroid Hormone (PTH) Antigen, Medix Biochemica (Cat 439-66)  
WHO International Standard Parathyroid Hormone 1-84, human, recombinant, NIBSC (Cat 95/646)

Product stability	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** Because this antibody binds to the C-terminus of PTH it is suitable for both 2nd and 3rd generation PTH assay.

**References** -



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