

Anti-h PTH 10702 SPTN-5

Product overview

| | |
|--------------------------------|---|
| Catalog number | 101002 |
| Specificity | Antibody recognizes human parathyroid hormone (PTH) |
| 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 ₃ as a preservative |
| Shelf life and storage | Unspecified, storage at 2–8 °C |
| Subclass | IgG ₁ |
| Analyte description | 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

| | |
|------------------------------|---|
| 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 a FIA test |
| IEF Profile | 6.7–7.3 |
| Purity | ≥ 95 % |

Kinetic parameters

| | |
|-----------------------------------|--|
| Association rate constant | 2.5 x 10 ⁵ 1/Ms |
| Dissociation rate constant | Does not dissociate under conditions used. |
| Affinity constant | Not applicable |
| Determination method | BLI (Octet RED96e) |
| Determination antigen | Parathyroid Hormone (PTH) Antigen, Medix Biochemica (Cat 439-66) |



Legal disclaimer

Cross-reactivities Not determined (N/D)

Epitope Amino acids 1-2 of human PTH

Pair recommendations Pair recommendations for PTH 3rd 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 3rd 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 -

References -



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