

PRODUCT SPECIFICATIONS

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| Name | Anti-h Thyroglobulin 2802 SPTN-5 |
| Specificity | Antibody recognizes human thyroglobulin |
| Description | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components |
| Product code | 100331 |
| Product buffer solution | 50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative |
| Shelf life and storage | 18 months from manufacturing at 2–8 °C |
| Analyte description | Thyroglobulin is a 660 kDa dimeric protein produced by and used entirely within the thyroid gland to produce the thyroid hormones thyroxine (T4) and triiodothyronine (T3). Thyroglobulin levels in the blood can be used as a tumor marker for certain kinds of thyroid cancer. Thyroglobulin levels in the blood can also be elevated in cases of Graves' disease. |

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 | 6.7 – 8.2 |
| Purity | ≥ 95 % |

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

| | |
|-----------------------------------|---|
| Subclass | IgG ₁ |
| Association rate constant | 8.6×10^3 1/Ms |
| Dissociation rate constant | 1.2×10^{-5} 1/s |
| Affinity constant | $K_A = 7.3 \times 10^8$ 1/M; $K_D = 1.4 \times 10^{-9}$ M (=1.4 nM) |
| Determination method | SPR analysis (ProteOn XPR36) |
| Determination antigen | Thyroglobulin, Fitzgerald (Cat 30-AT01, Lot A11102002) |

Legal disclaimer

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Cross-reactivities

No cross-reactivity against thyroid peroxidase, others not tested.

Epitope

Not Determined (N/D)

Pair recommendations

CAPTURE ANTIBODY
2805

DETECTION ANTIBODY
2802

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.

Product stability**TEMPERATURE, TIME****RESULT**

-70 °C, 21 days

OK

-20 °C, 21 days

OK, but not recommended

+4 °C, 21 days

OK

+25 °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

T3 or T4 has no effect on the binding of this antibody.

References

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