

PRODUCT SPECIFICATIONS

Name	Anti-h Thyroglobulin 2804 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	100333
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	36 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	6.8 - 7.5
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	7.2×10^4 1/Ms
Dissociation rate constant	7.9×10^{-4} 1/s
Affinity constant	$K_A = 9.1 \times 10^7$ 1/M; $K_D = 1.1 \times 10^{-8}$ M (=11 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
2803, 2805

DETECTION ANTIBODY
2804

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

+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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