

## Anti-h Thyroglobulin 2804 SPTN-5

### Product overview

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<b>Catalog number</b>	100333
<b>Specificity</b>	Antibody recognizes human thyroglobulin
<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>	36 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	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

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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>	6.8–7.5
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	$7.2 \times 10^4$ 1/Ms
<b>Dissociation rate constant</b>	$7.9 \times 10^{-4}$ 1/s
<b>Affinity constant</b>	$K_A = 9.1 \times 10^7$ 1/M; $K_D = 1.1 \times 10^{-8}$ M (=11 nM)
<b>Determination method</b>	SPR analysis (ProteOn XPR36)
<b>Determination antigen</b>	Thyroglobulin, Fitzgerald (Cat 30-AT01, Lot A11102002)



#### Legal disclaimer

**Cross-reactivities** Does not recognize thyroid peroxidase, others not tested.

**Epitope** Not Determined (N/D)

**Pair recommendations**

		DETECTION			
		2802	2803	2804	2805
CAPTURE	2802	-	-	+	+
	2803	-	-	+	+
	2804	-	-	-	-
	2805	+	+	+	-

Following pairs are especially recommended for the below mentioned assays:  
FIA: 2802 (capture) – 2805 (detection)

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** Native Thyroglobulin antigen, Lee Biosolutions 528-11

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** -



**Legal disclaimer**