



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	
Subclass	IgG ₁	
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 %	

Kinetic parameters

Association rate constant	7.2 x 10⁴ 1/Ms
Dissociation rate constant	7.9 x 10 ⁻⁴ 1/s
Affinity constant	K _A = 9.1 x 10 ⁷ 1/M; K _D = 1.1 x 10 ⁻⁸ M (=11 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	Thyroglobulin, Fitzgerald (Cat 30-AT01, Lot A11102002)

Oy Medix Biochemica Ab Klovinpellontie 3 FI-02180 Espoo, Finland

medix@medixbiochemica.com www.medixbiochemica.com VAT reg.no. FI14631532

Legal disclaimer Medix Biochemica products meet their specifications if transported, stored and used according to the instructions. Medix/MAB and Medix/Antigens are trademarks of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission.





Cross-reactivities

Pair recommendations

Epitope

Does not recognize thyroid peroxidase, others not tested.

Not Determined (N/D)

		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	
Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	ОК
	+25 °C, 21 days	ОК
	+35 °C, 21 days	ОК
	+45 °C, 7 days	ОК
		ouffer to see whether different temperatures ition of the antibody. Please note that the shelf ne stability testing at 2–8 °C in the product
Miscellaneous	T3 or T4 has no effect on the binding of this antibody.	

References

Oy Medix Biochemica Ab Klovinpellontie 3 FI-02180 Espoo, Finland medix@medixbiochemica.com www.medixbiochemica.com VAT reg.no. FI14631532 Legal disclaimer

Medix Biochemica products meet their specifications if transported, stored and used according to the instructions. Medix/MAB and MedixAntigens are trademarks of Medix Biochemica and may not be used or reproduced without Medix Biochemica's written permission.