

Anti-h TSH 5408 SPTN-1

Product overview

Catalog number	100033
Specificity	Antibody recognizes human thyrotropin and its free beta subunit
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	36 months from manufacturing at 2–8 °C
Subclass	IgG ₁
Analyte description	Thyroid-stimulating hormone (also known as TSH or thyrotropin) is a peptide hormone synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH levels are tested in the blood of patients suspected of suffering from excess (hyperthyroidism), or deficiency (hypothyroidism) of thyroid hormone.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	1.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.6–7.3
Purity	≥ 95 %

Kinetic parameters

Association rate constant	9.6×10^5 1/Ms
Dissociation rate constant	3.8×10^{-5} 1/s
Affinity constant	$K_A = 2.5 \times 10^{10}$ 1/M; $K_D = 4.0 \times 10^{-11}$ M (= 0.04 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	TSH, Scripps (Cat T0114, Lot 2414402)



Legal disclaimer

Cross-reactivities

TSH α < 0.08 % (Scripps Laboratories, Cat T0214, Lot BE298774)
 hCG < 0.08 % (Scripps Laboratories, Cat C0714, Lot BB274002)
 LH < 0.08 % (Scripps Laboratories, Cat L0815, Lot BB236003)
 FSH < 0.08 % (Scripps Laboratories, Cat F0614, Lot BA127003)

Epitope Group 1

Pair recommendations

		DETECTION					
		5401	5404	5405	5407	5408	5409
CAPTURE	5401	-	-	+	+	-	+
	5404	-	-	+	+	-	+
	5405	-	-	-	-	+	+
	5407	-	-	-	-	+	+
	5408	-	-	+	+	-	+
	5409	-	-	+	+	-	-

Following pairs are especially recommended for the below mentioned assays:

CLIA: 5405 (capture) – 5409 (detection), 5407 – 5409 and 5409 – 5407

LF: 5405 (membrane) – 5409 (particles), 5407 – 5409, 5408 – 5405, 5408 – 5407, 5408 – 5409, 5409 – 5407

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, LF, CLIA

Antigens tested Native TSH antigen Medix Biochemica 996-51.

TEMPERATURE, TIME	RESULT
-70 °C, 21 days	Not Determined (N/D)
-20 °C, 21 days	OK
+4 °C, 21 days	OK
+30 °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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