Medix Biochemica

Anti-h TSH 5407 SPTN-5

Product overview							
Catalog number	100254						
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	24 months from manufacturing at 2–8 °C						
Subclass	lgG1						
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 o suffering from excess (hyperthyroidism), or deficiency (hypothyroidism) or thyroid hormone.						
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	5.6–7.0						
Purity	≥ 95 %						
Kinetic parameters							
Association rate constant	1.1 x 10 ⁶ 1/Ms						
Dissociation rate constant	2.0 x 10 ⁻⁴ 1/s						
Affinity constant	K _A = 5.4 x 10 ⁹ 1/M; K _D = 1.8 x 10 ⁻¹⁰ M (= 0.18 nM)						
Determination method	SPR analysis (ProteOn XPR36)						
Determination antigen	TSH, Scripps (Cat T0114, Lot 2414402)						



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Cross-reactivities

TSH α < 0.5 % (Scripps Laboratories, Cat T0214, Lot BE298774) 77.4 % (Scripps Laboratories, Cat T0314, Lot BA317002) TSH β hCG < 0.5 % (Scripps Laboratories, Cat C0714, Lot BB274002) < 0.5 % (Scripps Laboratories, Cat L0815, Lot BB236003) LH < 0.5 % (Scripps Laboratories, Cat F0614, Lot BA127003) FSH

Epitope

Group 3

Pair recommendations

Pair recommendations			DETECTION								
			5401	5404	5405	5407	5408	5409			
		5401	-	-	+	+	-	+			
	ш	5404	-	-	+	+	-	+			
	CAPTURE	5405	-	-	-	-	+	+			
		5407	-	-	-	-	+	+			
		5408	-	-	+	+	-	+			
		5409	-	-	+	+	-	-			
Platforms tested	 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. FIA, LF, CLIA 										
Antigens tested	Native TSH antigen Medix Biochemica 996-51.										
Product stability	TEMPERATURE, TIMERESULT-70 °C, 21 daysNot Determine-20 °C, 21 daysOK+4 °C, 21 daysOK+30 °C, 21 daysOK+35 °C, 21 daysOK+45 °C, 7 daysOKStability testing is performed in the product buffer to temperatures affect the antigen binding, charge or of antibody. Please note that the shelf life given on the real time stability testing at 2–8 °C in the product buffer							ee wheth nposition rst page	of the		
Miscellaneous	-										
References	-										



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