

## Product specifications

---

Name	Anti-h Alpha Subunit 6601 SPR-5
Specificity	Antibody recognizes the alpha subunit of human chorionic gonadotropin (hCG), luteinizing hormone (LH), follicle-stimulating hormone (FSH), and thyroid-stimulating hormone (TSH)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
Product code	100066
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.095 % NaN <sub>3</sub> as a preservative
Shelf life and storage	36 months from manufacturing at 2–8 °C
Subclass	IgG <sub>2a</sub>
Analyte description	The alpha subunits of gonadotropins LH, FSH, TSH, and hCG are identical. The human alpha subunit consists of 92 amino acids, and has an average molecular weight of 14 kDa.

## 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	6.6–7.4
Purity	≥ 95 %

## Kinetic parameters

---

Association rate constant	$8.9 \times 10^5$ 1/Ms
Dissociation rate constant	$3.8 \times 10^{-5}$ 1/s
Affinity constant	$K_A = 2.4 \times 10^9$ 1/M; $K_D = 4.2 \times 10^{-11}$ M (= 0.04 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	hCG, Scripps (Cat C0714, Lot 2430801)



Cross-reactivities	Does not recognize hCG, LH, FSH, or TSH $\beta$ subunits	
Epitope	Not Determined (N/D)	
Pair recommendations	CAPTURE ANTIBODY hCG, LH, FSH, or TSH $\beta$ subunit specific antibody	DETECTION ANTIBODY 5501, 5503, 6601
	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	
Antigens tested	Not Determined (N/D)	
Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	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	Antibody 6601 works well in lateral flow applications.	
References	-	

**Legal disclaimer**

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

