

Anti-h Alpha Subunit 5501 SP-1

Product overview

Catalog number	100035
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 buffer solution	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	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	1.0 mg/ml (+/- 10 %)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	6.5–7.2
Purity	≥ 95 %

Kinetic parameters

Association rate constant	1.9×10^6 1/Ms
Dissociation rate constant	1.1×10^{-3} 1/s
Affinity constant	$K_A = 1.7 \times 10^9$ 1/M; $K_D = 5.7 \times 10^{-10}$ M (= 0.57 nM)
Determination method	SPR analysis (ProteOn XPR36)
Determination antigen	hCG, Scripps (Cat C0714, Lot 2430801)



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Cross-reactivities Does not recognize hCG, LH, FSH, or TSH β subunits

Epitope Alpha 2 epitope as described in Nilsson et al. (2001)

Pair recommendations

CAPTURE ANTIBODY	DETECTION ANTIBODY
hCG, LH, FSH, or TSH β subunit specific 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

Antigens tested N/D

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	N/D
	-20 °C, 21 days	N/D
	+4 °C, 21 days	N/D
	+35 °C, 7 days	N/D
	+35 °C, 21 days	N/D
	+45 °C, 3 days	N/D
	+45 °C, 7 days	N/D

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 Nilsson, C., Seppälä, M. and Pettersson, K. (2001) Immunological characterization of human luteinizing hormone with special regard to a common genetic variant. J.Endocrinol. 168:10-116



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