

Anti-h ACTH R12801 SPTN-5

Product overview

Catalog number	140028
Specificity	Antibody recognizes human adrenocorticotrophic hormone
Description	Recombinant mouse IgG ₁ 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	Unspecified, storage at 2–8 °C
Subclass	IgG ₁
Analyte description	Adrenocorticotrophic hormone (ACTH), also known as corticotropin, is a peptide hormone produced by the pituitary gland in response to stress. ACTH stimulates the adrenal cortex and the secretion of glucocorticoids such as cortisol. ACTH is often measured along with cortisol to diagnose disorders of the pituitary or adrenal glands such as Cushing's syndrome or Addison's disease.

Parameters tested on each lot

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/-10 %) (A280 nm, 1 mg/ml, 1 cm = 1.6)
Immunoreactivity	80–120 % compared to the reference sample in an FIA test
IEF Profile	5.5–6.0
Purity	≥ 95 %

Kinetic parameters

Association rate constant	7.9×10^5 1/Ms
Dissociation rate constant	1.9×10^{-5} 1/s
Affinity constant	$K_A = 4.3 \times 10^{10}$ 1/M, $K_D = 2.3 \times 10^{-11}$ M (0.023 nM)
Determination method	BLI (Octet RED96e)
Determination antigen	Synthetic biot. ACTH (1-39), Discovery peptides (cat. crb1000079h, lot. 10071/15)



Legal disclaimer

Cross-reactivities

Does not recognize: β -MSH, β -endorphin, ACTH 1-10, ACTH 1-13 (α -MSH), ACTH 18-39 (CLIP)
Recognizes: ACTH 1-17, ACTH 1-24, ACTH 7-38

Epitope

Based on fragment-recognition data, the epitope is located within ACTH 14-18.

Pair recommendations

		DETECTION	
		R12801	R12802
CAPTURE	R12801	-	+
	R12802	+	-

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	OK
-20 °C, 21 days	OK
+4 °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

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References

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