

## Anti-h GH 5802 SP-1

### Product overview

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<b>Catalog number</b>	100042
<b>Specificity</b>	Antibody recognizes human growth hormone (GH)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.
<b>Product buffer solution</b>	0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	36 months from manufacturing at 2–8 °C
<b>Subclass</b>	IgG <sub>1</sub>
<b>Analyte description</b>	Growth hormone (GH) is a single-chain polypeptide hormone that is synthesized, stored, and secreted by the anterior pituitary gland. It stimulates growth and cell reproduction and regeneration in humans and other animals. Growth hormone is used clinically to treat children's growth disorders and adult growth hormone deficiency.

### Parameters tested on each lot

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<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	1.0 mg/ml (+/- 10%)
<b>Immunoreactivity</b>	80–120% compared to the reference sample in an FIA test
<b>IEF Profile</b>	6.0–7.1
<b>Purity</b>	≥ 95 %

### Kinetic parameters

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<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	$K_A = 1 \times 10^{10} \text{ 1/M}$
<b>Determination method</b>	Radioimmunoassay (RIA)
<b>Determination antigen</b>	GH, Boehringer (Cat 252964, Lot 1222303)

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**Cross-reactivities** PRL 1.0 % (International Laboratory Service, Lot 11385)  
 PL <0.2 % (UCB-Bioproducts, Cat i020, Lot 007)

**Epitope** N/D

**Pair recommendations**

		DETECTION	
		5801	5802
CAPTURE	5801	-	-
	5802	+	-

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** Native GH antigen Lee Biosolutions 996-21.

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** The antibody recognizes growth hormone isoform 22K, and does not recognize isoform 20K. Others not tested.

**References** Erb, T., Karolyi, G., Pampalone, A., Eberle, A.N., Baumann, J.B., Bürgisser, E., and Girard, J., (1988) Human growth hormone in urine: development of an ultrasensitive radiometric assay. *Experientia*, 44:155-157



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