



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1211

### Glucagon (1-29) (human, porcine, rat) ELISA [UniProt: P01275, P01274, P06883]

Glucagon is a peptide hormone secreted from the pancreatic Islet of Langerhans alpha-cells. It works to raise the concentration of glucose and fatty acids in the bloodstream, and is considered to be the main catabolic hormone of the body. Glucagon (1-29) acts on hepatic enzymes that regulate glucose production and glycogen synthesis. Excessive amounts of circulating glucagon are implicated in the metabolic dysregulation of type 2 diabetes, since such conditions result in hyperglycemia.

This ELISA was developed with serum from rabbits immunized with Glucagon (1-29) coupled to a carrier protein.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A16807
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Formulated for extracted samples (EIAH type).
<b>Shelf-life:</b>	One year from production date. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0-10ng/ml
<b>Average IC50:</b>	0.42ng/ml
<b>Immunogen:</b>	Synthetic peptide H-His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-Asn-Thr-OH coupled to carrier protein.

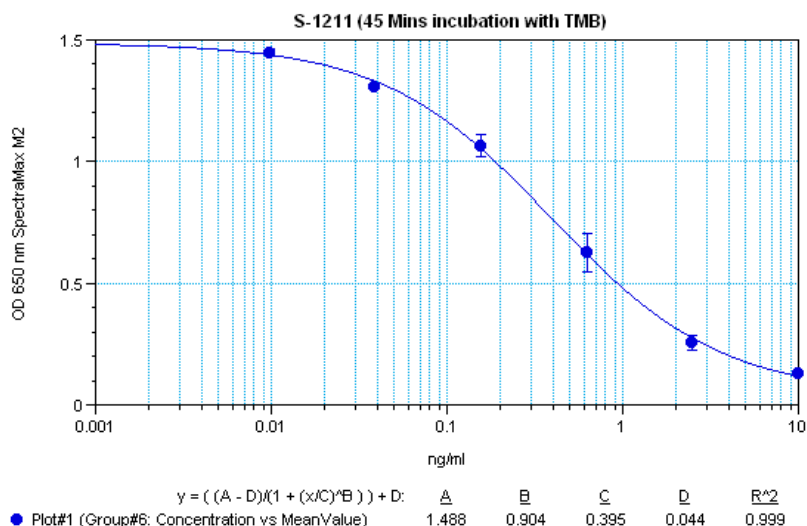
#### Cross-Reactivity:

PEPTIDE:	%:
Glucagon (1-29) (human, porcine, rat)	100
Insulin (human)	0
Somatostatin-14	0
α-CGRP (human)	0
Amylin (human)	0
Amylin (free acid) (rat)	0
Pancreatic Polypeptide (human)	0

## Cross-Reactivity (continued):

PEPTIDE:	%:
Glucagon-like Peptide I (GLP-I) (human)	0
GLP-2 (human)	0
Proinsulin (human)	0

Typical titration curve of Glucagon (1-29) in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.01 to 10ng/ml
<b>Stock</b>	1000	
<b>S1</b>	10.00	Add 10µl Stock + 990µl diluent
<b>S2</b>	2.50	Add 200µl S1 + 600µl diluent
<b>S3</b>	0.63	Add 200µl S2 + 600µl diluent
<b>S4</b>	0.16	Add 200µl S3 + 600µl diluent
<b>S5</b>	0.04	Add 200µl S4 + 600µl diluent
<b>S6</b>	0.01	Add 200µl S5 + 600µl diluent
<b>S0</b>	0.00	500µl diluent

Related Products:

- T-4359: anti Glucagon (1-29) (hu), neat antiserum
- T-4358: anti Glucagon (1-29) (hu), purified IgG
- T-4357: anti Glucagon (1-29) (hu), diluted antiserum
- S-1349: ELISA, extraction-free for serum and plasma samples (hu, rt, po)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

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EIAH

1.3.2021