



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1221

### Pancreastatin (porcine) ELISA [UniProt: P04404]

Pancreastatin is a 49 amino acid peptide found in many cells of the neuroendocrine system. It is produced from the proteolytic cleavage of its precursor, Chromogranin A [Chromogranin A (240-288)]. It is localized to insulin-containing beta cells, glucagon-containing alpha cells, and somatostatin-containing D cells of the pancreatic islet. Pancreastatin inhibits release of somatostatin upon glucose stimulation and it may also control carbohydrate metabolism and hyperglycemia.

This ELISA was developed with serum from rabbits immunized with Pancreastatin coupled to a carrier protein.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A17806
<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>	0.34ng/ml
<b>Immunogen:</b>	Synthetic peptide H-Gly-Trp-Pro-Gln-Ala-Pro-Ala-Met-Asp-Gly-Ala-Gly-Lys-Thr-Gly-Ala-Glu-Glu-Ala-Gln-Pro-Pro-Glu-Gly-Lys-Gly-Ala-Arg-Glu-His-Ser-Arg-Gln-Glu-Glu-Glu-Glu-Glu-Thr-Ala-Gly-Ala-Pro-Gln-Gly-Leu-Phe-Arg-Gly-NH <sub>2</sub> coupled to carrier protein.

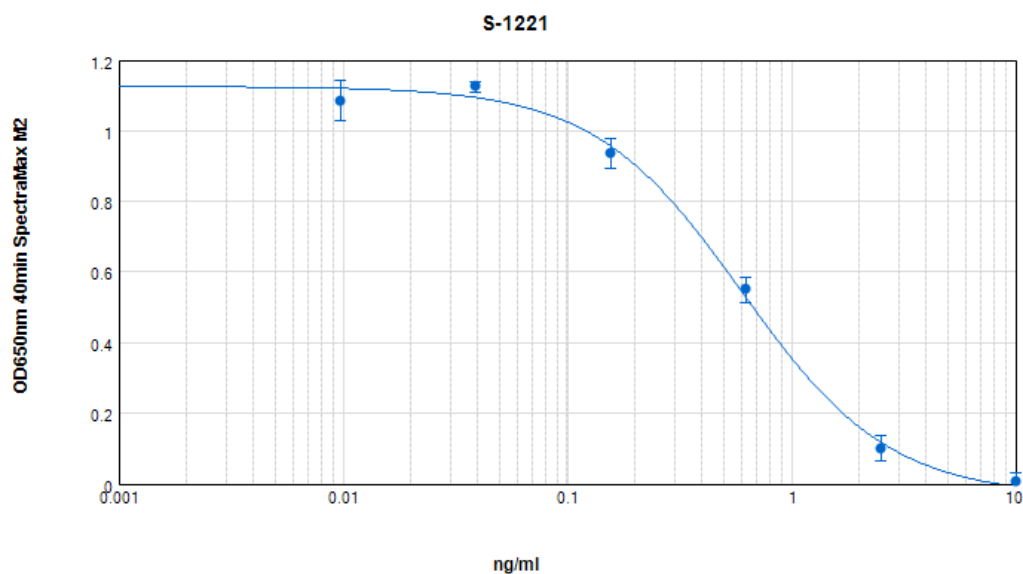
#### Cross-Reactivity:

PEPTIDE:	%:
Pancreastatin (porcine)	100
Chromogranin A (250-301) amide (human)	100
Pancreastatin (33-49) (porcine)	100
Chromogranin A (286-301)-amide (human)	91
Chromogranin A (248-294)-amide (bovine)	1
Chromogranin A (264-314) (rat)	0
Galanin (porcine)	0
Gastrin-1 (human)	0

## Cross-Reactivity (continued):

PEPTIDE:	%:
Met-Enkephalin	0
Peptide YY (porcine, rat)	0
PHI-27 (porcine)	0
Substance P	0.01
(Arg <sup>8</sup> )-Vasopressin	0.01
VIP (human, bovine, porcine, rat)	0

Typical titration curve of Pancreastatin 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-4480: purified rabbit IgG  
T-4481: neat rabbit antiserum (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 – po

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