



BMA BIOMEDICALS



Peninsula Laboratories

S-1401

Bombesin ELISA

Bombesin is a 14-amino acid peptide originally isolated from the skin of the European fire-bellied toad (*Bombina orientalis*). It has two known homologs in mammals called neuromedin B and gastrin-releasing peptide. Bombesin stimulates gastrin release from G cells and activates three different G-protein-coupled receptors known as BBR1, -2, and -3. It also activates these receptors in the brain. Together with cholecystokinin, Bombesin is the second major source of negative feedback signals that stop eating behaviour. Also, it is known to be a tumor marker for small cell carcinoma of lung, gastric cancer, pancreatic cancer, and neuroblastoma.

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

TECHNICAL AND ANALYTICAL CHARACTERISTICS

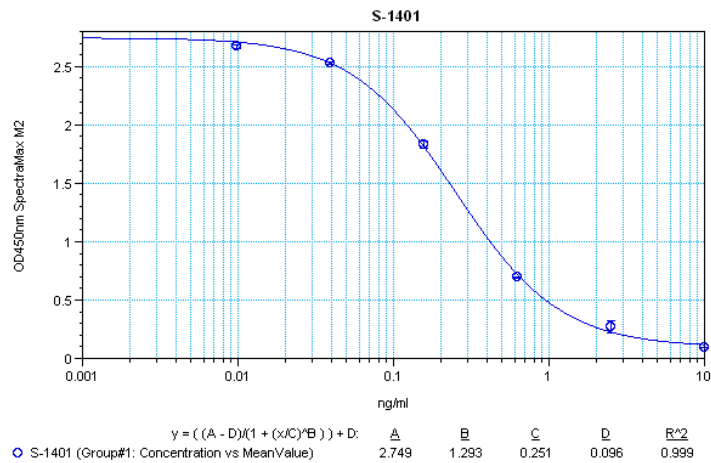
Lot number:	A15088
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Formulated for extracted samples (EIAH type).
Shelf-life:	One year from production date. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with appropriately extracted samples (original protocol III, Std.Ab1hr.Bt). For research use only. Please see www.bma.ch for protocols and general information.
Range:	0-10ng/ml
Average IC50:	0.3ng/ml
Immunogen:	Synthetic peptide Pyr-Gln-Arg-Leu-Gly-Asn-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH ₂ coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
Bombesin	100
[Lys ³]-Bombesin	100
[Tyr ⁴]-Bombesin	100
GRP (Porcine)	50
Substance P	<0.01
VIP (human, bovine, porcine, rat)	<0.01

Cross-Reactivity data is taken from Radioimmunoassay applications

Typical titration curve of Bombesin in a competitive ELISA with this antibody:



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

Related Products:

T-4191: Rabbit anti Bombesin, diluted antiserum
 T-4193: Rabbit anti Bombesin, neat antiserum
 T-4192: Rabbit anti Bombesin, purified IgG

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

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