



BMA BIOMEDICALS



Peninsula Laboratories

S-1445

(Pyr¹)-Apelin-13 (human, bovine, mouse, rat) ELISA [UniProt: Q9ULZ1, Q9TUI9, Q9R0R4, Q9R0R3]

(Pyr¹)-Apelin-13 binds with high affinity and selectivity to human cardiac tissue. Apelin is the endogenous ligand for the G-protein-coupled APJ receptor. It is produced as a pre-proprotein of 77 amino acids. Upon signal peptide cleavage, the proprotein of 55 amino acids may generate several active fragments: Apelin-36 (36 aa corresponding to the sequence 42-77), Apelin-17 (17 aa corresponding to the sequence 61-77) and Apelin-13 (13 aa corresponding to the sequence 65-77). Apelin-13 may undergo a pyroglutamylation at its N-terminal glutamine residue.

This ELISA was developed with serum from rabbits immunized with (Pyr¹)-Apelin-13 coupled to a carrier protein.

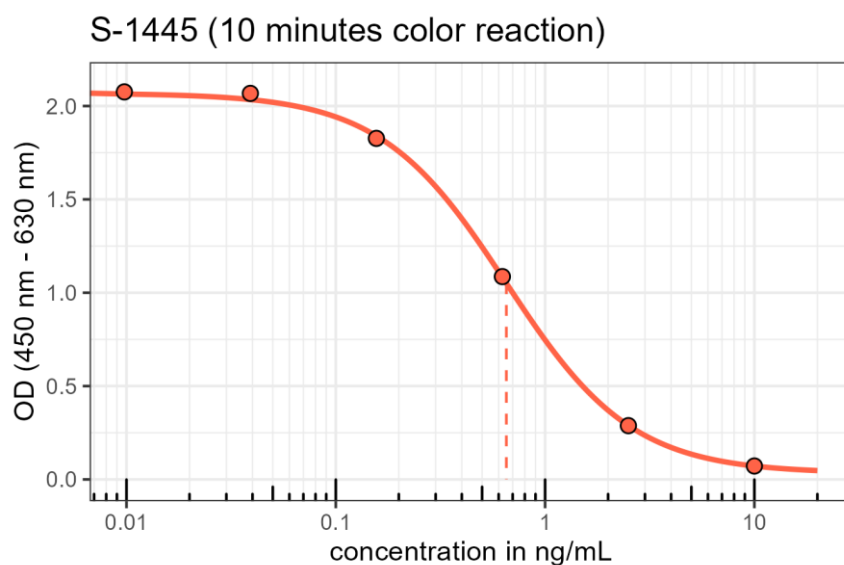
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	A18PO22143
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:	0.65ng/ml
Immunogen:	Synthetic peptide (Pyr)-Arg-Pro-Arg-Leu-Ser-His-Lys-Gly-Pro-Met-Pro-Phe-OH coupled to carrier protein.

Cross-Reactivity:

PEPTIDE:	%:
(Pyr ¹)-Apelin-13 (human, bovine, mouse, rat)	100
Apelin-13	100
Apelin-17	100
Angiotensin I	0
Angiotensin II	0
Angiotensin III	0

Typical titration curve of (Pyr1)-Apelin-13 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:

S-1531: ELISA, high sensitivity for extracted samples (36)(hu)
 S-1416: ELISA, high sensitivity for extracted samples (13) (hu)
 S-1505: ELISA, high sensitivity for extracted samples (16)
 T-4825: Rabbit anti Apelin-17, neat antiserum
 T-4824: Rabbit anti Apelin-17, purified IgG

This product contains ProClin™150 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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31.10.2022