

Datasheet for ABIN5651871 Apelin ELISA Kit



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Overview

Quantity:	96 tests
Target:	Apelin (APLN)
Reactivity:	Rat
Method Type:	Competition ELISA
Detection Range:	12.35 pg/mL - 1000 pg/mL
Minimum Detection Limit:	12.35 pg/mL
Application:	ELISA

Product Details

Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Apelin (APLN). No significant cross-reactivity or interference between Apelin (APLN) and analogues was observed.
Sensitivity:	4.34 pg/mL

Target Details

Target:	Apelin (APLN)
Alternative Name:	Apelin (APLN Products)
Background:	Gene Name: Apelin

Target Details

Gene Aliases: XNPEP2, APEL, APJ endogenous ligand

UniProt: [Q9R0R3](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Hormone Activity](#), [Feeding Behaviour](#)

Application Details

Comment: The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

Assay Time: 2 h

Plate: Pre-coated

Protocol: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Apelin (APLN) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Apelin (APLN) and unlabeled Apelin (APLN) (Standards or samples) with the pre-coated antibody specific to Apelin (APLN). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Apelin (APLN) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Apelin (APLN) in the sample.

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Apelin (APLN) were tested 20 times on one plate, respectively
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Apelin (APLN) were tested on 3 different plates, 8 replicates in each plate. CV(%) = $SD/mean \times 100$
Intra-Assay: CV<10%
Inter-Assay: CV<12%

Restrictions: For Research Use only

Handling

Handling Advice: The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and

Handling

specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

Storage: 4 °C,-20 °C

Storage Comment: -20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.

Expiry Date: 4-8 months