

Rat Apelin (APLN) ELISA Kit | APLN elisa kit

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CATALOG #
AAA148619

REACTIVITY
Rat

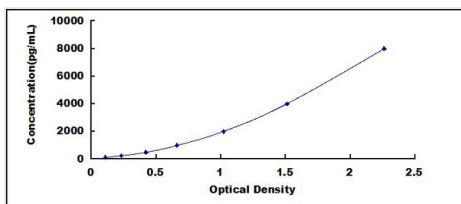
PRODUCT SYNONYMS

Apelin (APLN); Rat Apelin (APLN) ELISA Kit; XNPEP2; APEL; APJ endogenous ligand; APLN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
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.
Sequence Length	77
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	125-8,000pg/mL
Sensitivity	51pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
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/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for APLN elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Apelin (APLN). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Apelin (APLN). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Apelin (APLN), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Apelin (APLN) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for APLN elisa kit	Endocrinology

NCBI AND UNIPROT INFORMATION

NCBI GI #	13928836
NCBI GeneID	58812
NCBI Accession #	NP_113800.1
NCBI GenBank Nucleotide #	NM_031612.3
UniProt Accession #	Q9R0R3
Molecular Weight	8,677 Da
NCBI Official Full Name	apelin preproprotein
NCBI Official Synonym Full Names	apelin
NCBI Official Symbol	Apln
NCBI Official Synonym Symbols	Apel
NCBI Protein Information	apelin
UniProt Protein Name	Apelin
UniProt Gene Name	Apln
UniProt Synonym Gene Names	Apel

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/apelin-apln/148619>