

Rat Islet Amyloid Polypeptide (IAPP) ELISA Kit | IAPP elisa kit

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CATALOG #
AAA182105

REACTIVITY
Rat

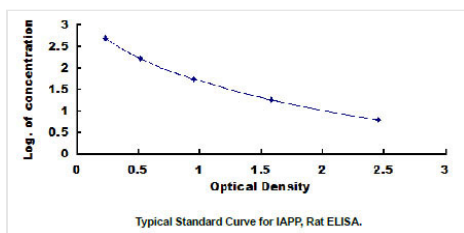
PRODUCT SYNONYMS

Islet Amyloid Polypeptide (IAPP); Rat Islet Amyloid Polypeptide (IAPP) ELISA Kit; IAP; DAP; Amylin; Insulinoma Amyloid Polypeptide; Diabetes-associated peptide; IAPP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of IAPP. No significant cross-reactivity or interference between IAPP and analogues was observed.
Sequence Length	89
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Competitive
Detection Range	6.17-500pg/mL
Sensitivity	< 2.83pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IAPP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IAPP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 IAPP elisa kit	Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of IAPP in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to IAPP has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled IAPP and unlabeled IAPP (Standards or samples) with the pre-coated antibody specific to IAPP. 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 IAPP in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of IAPP in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557655
NCBI GeneID	3375
NCBI Accession #	NP_000406.1
NCBI GenBank Nucleotide #	NM_000415.2
UniProt Accession #	P10997; Q0ZD87; Q14598
Molecular Weight	9,806 Da
NCBI Official Full Name	islet amyloid polypeptide preproprotein
NCBI Official Synonym Full Names	islet amyloid polypeptide
NCBI Official Symbol	IAPP
NCBI Official Synonym Symbols	DAP; IAP
NCBI Protein Information	islet amyloid polypeptide
UniProt Protein Name	Islet amyloid polypeptide
UniProt Gene Name	IAPP
UniProt Synonym Gene Names	DAP

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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/islet-amyloid-polypeptide-iapp/182105>