

Mouse adiponectin, C1Q and collagen domain containing ELISA Kit | ADP elisa kit

Mouse adiponectin, ADP ELISA Kit

CATALOG #
AAA80607

REACTIVITY
Mouse

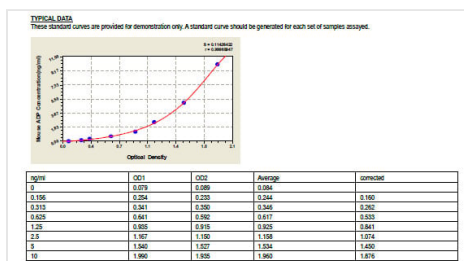
PRODUCT SYNONYMS

adiponectin; C1Q and collagen domain containing; Mouse adiponectin; ADP ELISA Kit; ACDC; ACRP30; ADIPQTL1; ADPN; APM-1; APM1; GBP28; OTTHUMP00000210047; OTTHUMP00000210048; adipocyte; C1Q and collagen domain-containing; adipo; ADP; ADP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse ADIPOQ. No significant cross-reactivity or interference between Mouse ADIPOQ and analogues was observed.
Sequence Length	247
Samples	Serum, plasma, cell culture supernates, tissue homogenates, Cell lysates
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	0.039 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Cardiovascular
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ADP elisa kit

Introduction: Adiponectin (also referred to as Acrp30, apM1) is a protein hormone that modulates a number of metabolic processes, including glucose regulation and fatty acid catabolism. Adiponectin is exclusively secreted from adipose tissue into the bloodstream and is very abundant in plasma relative to many hormones. Levels of the hormone are inversely correlated with body fat percentage in adults, while the association in infants and young children is more unclear. The hormone plays a role in the suppression of the metabolic derangements that may result in type 2 diabetes, obesity, atherosclerosis and non-alcoholic fatty liver disease (NAFLD). Adiponectin is a 244-amino-acid-long polypeptide. There are four distinct regions of adiponectin. The first is a short signal sequence that targets the hormone for secretion outside the cell; next is a short region that varies between species; the third is a 65-amino acid region with similarity to collagenous proteins; the last is a globular domain. Overall this gene shows similarity to the complement 1Q factors. However, when the 3-dimensional structure of the globular region was determined, a striking similarity to TNFalpha was observed, despite unrelated protein sequences. Adiponectin is secreted into the bloodstream where it accounts for approximately 0.01% of all plasma protein at around 5-10 ug/mL. Plasma concentrations reveal a sexual dimorphism, with females having higher levels than males. Levels of adiponectin are reduced in diabetics compared to non-diabetics. Weight reduction significantly increases circulating levels.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ADP. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for ADP and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5, 5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain ADP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of ADP in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	87252711
NCBI GeneID	11450
NCBI Accession #	NP_033735.3
NCBI GenBank Nucleotide #	NM_009605.4
UniProt Accession #	Q60994; Q62400; Q6GTX4; Q9DC68
Molecular Weight	26,809 Da
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	Adipoq
NCBI Official Synonym Symbols	APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30
NCBI Protein Information	adiponectin; adipocyte-specific protein AdipoQ; adipocyte complement related protein; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein
UniProt Protein Name	Adiponectin
UniProt Gene Name	Adipoq
UniProt Synonym Gene Names	Acdc; Acrp30; Apm1; ACRP30
UniProt Entry Name	ADIPO_MOUSE

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.