

Mouse Adiponectin ELISA Kit | ADIPOQ elisa kit

Adiponectin: Mouse (ELISA)

CATALOG #
AAA60547

REACTIVITY
Mouse

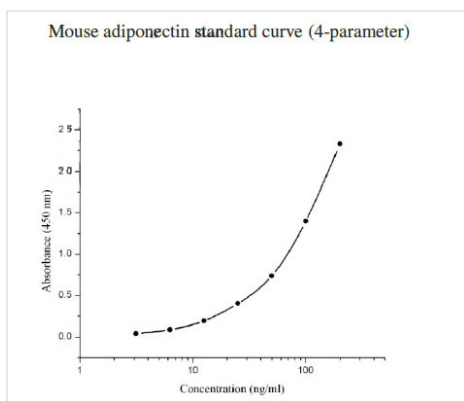
PRODUCT SYNONYMS

Adiponectin; Adiponectin: Mouse (ELISA); Mouse adiponectin; ADIPOQ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The antibodies used in this assay are specific to mouse adiponectin and do not cross-react with human adiponectin, and other cytokine or hormone molecules.
Sequence Length	244
Samples	Serum, plasma and cell culture supernate samples
Assay Type	Quantitative Sandwich
Sensitivity	3.12 ng/ml

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ADIPOQ elisa kit	Intended Uses: This Mouse Adiponectin ELISA kit is designed for quantification of mouse adiponectin in serum, plasma, adipocyte extracts and cell culture media. Principle of the Assay: This assay is a sandwich ELISA using affinity-purified polyclonal antibodies against mouse adiponectin. The immunoplate is pre-coated with anti-mouse adiponectin capture antibody. Standards and samples are pipetted into the wells and any mouse adiponectin present is bound by the immobilized antibody. After washing away any unbound substances, a horseradish peroxidase (HRP)-linked polyclonal antibody specific for mouse adiponectin is added to the wells. After a final wash step, an HRP substrate solution is added and colour develops in proportion to the amount of mouse adiponectin bound initially. The assay is stopped and the optical density of the wells determined using a microplate reader. Since the increases in absorbance are directly proportional to the amount of captured mouse adiponectin, the unknown sample concentration can be interpolated from a reference curve included in each assay. Background/Introduction: Adiponectin, also known as apM1, Acrp30, GBP28 and adipoQ, is a circulating hormone predominantly produced from adipose tissue¹. Many pharmacological studies demonstrated that this protein possesses potent anti-diabetic, anti-atherogenic and anti-inflammatory functions. Supplement of adiponectin protein can decrease blood glucose², improve insulin sensitivity³, alleviate fatty liver⁴ and prevent atherosclerosis⁵. The protein is posttranslationally modified by hydroxylation and glycosylation⁶, and forms three different oligomeric complexes in the circulation⁷. Many clinical studies demonstrated that plasma adiponectin is an useful biomarker for metabolic syndrome, nonalcoholic steatohepatitis and certain type of cancers¹. Decreased circulating levels of plasma adiponectin (hypoadiponectinaemia) are associated with increased body mass index (BMI), decreased insulin sensitivity, less favourable plasma lipid profiles, increased levels of inflammatory markers and increased risk for the development of type 2 diabetes, hypertension, and coronary heart diseases. Low adiponectin concentrations were found to be predictive of a future reduction in insulin sensitivity and cardiovascular disorders. Administration of the anti-diabetic drugs thiazolidinediones (TZDs) raises circulating adiponectin levels⁸. In addition, low plasma adiponectin levels are also associated with nonalcoholic steatohepatitis (NASH) and certain types of cancers.
References	1. Adiponectin: mechanistic insights and clinical implications. Turer AT & Scherer PE. Diabetologia. 2012 55(9):2319-26. 2. Protective role of adiponectin in cardiovascular disease. Shibata R, Murohara T, Ouchi N. Curr Med Chem. 2012 19(32):5459-66 3. Adiponectin, an anti-carcinogenic hormone A systematic review on breast, colorectal, liver and prostate cancer. Perrier S, Jardé T.Curr Med Chem. 2012 19(32):5501-12

NCBI AND UNIPROT INFORMATION

NCBI GI #	295317372
NCBI GeneID	9370
NCBI GenBank Nucleotide #	NP_001171271.1
UniProt Accession #	Q15848
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	ADIPOQ
NCBI Official Synonym Symbols	ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1
NCBI Protein Information	adiponectin
UniProt Protein Name	Adiponectin
UniProt Gene Name	ADIPOQ
UniProt Synonym Gene Names	ACDC; ACRP30; APM1; GBP28; ACRP30; apM-1
UniProt Entry Name	ADIPO_HUMAN

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/mouse-elisa-kits/adiponectin/60547>