

Datasheet for ABIN411384

ADIPOQ ELISA Kit[Go to Product page](#)**1** Image**12** Publications

Overview

Quantity:	96 tests
Target:	ADIPOQ
Binding Specificity:	AA 19-244
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Adiponectin
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Tissue Homogenate, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E19-N244
Specificity:	Expression system for standard: NSO Immunogen sequence: E19-N244
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<60pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

Target Details

Target:	ADIPOQ
Alternative Name:	ADIPOQ (ADIPOQ Products)
Background:	<p>Background: Adiponectin(ADPN) is a hormone secreted by adipocytes that regulates energy homeostasis and glucose and lipid metabolism. Adiponectin is a new member of the family of soluble defense collagens, in hematopoiesis and immune responses. It is an important negative regulator in hematopoiesis and immune systems and raise the possibility that it may be involved in ending inflammatory responses through its inhibitory functions. Adiponectin is mapped to 3q27 and can protect the organism from systemic inflammation by promoting the clearance of early apoptotic cells by macrophages through a receptor-dependent pathway involving calreticulin. The standard product used in this kit is the product of gene recombination, consisting of 226(19-244) amino acids with the molecular mass of 36KDa after glycosylation.</p> <p>Synonyms: Adiponectin ,Adiponectin, C1Q and collagen domain containing ,cDNA FLJ78108, highly similar to Homo sapiens adiponectin, C1Q and collagen domain containing (ADIPOQ), mRNA ,ADIPOQ ,hCG_1784052 ,</p> <p>Full Gene Name: adiponectin, C1Q and collagen domain containing</p>
Gene ID:	9370
UniProt:	A8K660

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	human Adiponectin ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Adiponectin has been

Application Details

precoated onto 96-well plates. Standards(NSO, E19-N244) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Adiponectin is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Adiponectin amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 100 ng/mL, 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL human Adiponectin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA), tissue homogenates or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Adiponectin standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 13.8, Standard deviation: 0.39, CV(%): 2.8
- Sample 2: n=16, Mean(ng/ml): 37.2, Standard deviation: 1.34, CV(%): 3.6
- Sample 3: n=16, Mean(ng/ml): 67.3, Standard deviation: 3.03, CV(%): 4.5
- Sample 1: n=24, Mean(ng/ml): 13.1, Standard deviation: 0.77, CV(%): 5.9
- Sample 2: n=24, Mean(ng/ml): 36.8, Standard deviation: 2.50, CV(%): 6.8
- Sample 3: n=24, Mean(ng/ml): 65.7, Standard deviation: 4.66, CV(%): 7.1

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C, 4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months

Publications

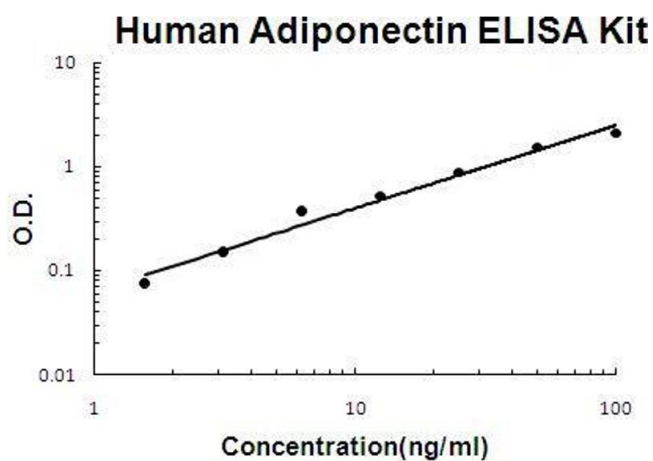
Product cited in: Martin, Koczera, Simons, Zechendorf, Hoeger, Marx, Schuerholz: "The Human Host Defense Ribonucleases 1, 3 and 7 Are Elevated in Patients with Sepsis after Major Surgery--A Pilot Study." in: **International journal of molecular sciences**, Vol. 17, Issue 3, pp. 294, (2016) ([PubMed](#)).

Kasiri, Beer, Nemec, Gruber, Pietkiewicz, Haider, Simader, Traxler, Schweiger, Janik, Taghavi, Gabriel, Mildner, Ankersmit: "Dying blood mononuclear cell secretome exerts antimicrobial activity." in: **European journal of clinical investigation**, Vol. 46, Issue 10, pp. 853-63, (2016) ([PubMed](#)).

Teran, Ramirez-Jimenez, Soid-Raggi, Velazquez: "Interleukin 16 and CCL17/thymus and activation-regulated chemokine in patients with aspirin-exacerbated respiratory disease." in: **Annals of allergy, asthma & immunology : official publication of the American College of Allergy, Asthma, & Immunology**, Vol. 118, Issue 2, pp. 191-196, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



ELISA

Image 1. Human Adiponectin PicoKine ELISA Kit standard curve