

ARG80131 Human Adiponectin ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Тетр
ARG80131-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80131-002	Standard (Lyophilized)	3 X 10 ng/vial	4°C
ARG80131-003	Standard diluent buffer	20 ml	4°C
ARG80131-004	Antibody conjugate concentrate	400 µl	4°C
ARG80131-005	Antibody diluent buffer	16 ml	4°C
ARG80131-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80131-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80131-008	20X Wash buffer	50 ml	4°C
ARG80131-009	TMB substrate	12ml	4°C (Protect from light)
ARG80131-010	STOP solution	12ml	4°C
ARG80131-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80131 Human Adiponectin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Adiponectin in serum, plasma and cell culture supernatants.	
Tested Reactivity	Hu	
Tested Application	ELISA	
Specificity	No significant cross-reactivity or interference with Mouse adiponectin.	
Target Name	Adiponectin	
Conjugation	HRP	
Conjugation Note	Substrate: TMB and read at 450 nm	
Sensitivity	0.08 ng/ml	
Sample Type	Serum, plasma and cell culture supernatants.	
Standard Range	0.156 - 10 ng/ml	
Sample Volume	100 µl	

Alternate Names

CV: less than 9.5%

Adipose most abundant gene transcript 1 protein; ADPN; APM-1; Gelatin-binding protein; APM1; ACDC; Adiponectin; apM-1; ACRP30; ADIPQTL1; GBP28; 30 kDa adipocyte complement-related protein; Adipocyte, C1q and collagen domain-containing protein; Adipocyte complement-related 30 kDa protein

Application Instructions

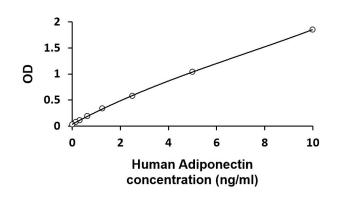
Assay Time	4 hours

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

ADIPOQ		
adiponectin, C1Q and collagen domain containing		
This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Apr 2010]		
Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti- diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW. [UniProt]		
Related products: <u>Adiponectin antibodies: Adiponectin ELISA Kits: Adiponectin Duos / Panels:</u> New ELISA data calculation tool: <u>Simplify the ELISA analysis by GainData</u>		
Cancer kit; Cell Biology and Cellular Response kit; Developmental Biology kit; Metabolism kit; Neuroscience kit; Signaling Transduction kit		
Hydroxylated Lys-33 was not identified in PubMed:16497731, probably due to poor representation of the N-terminal peptide in mass fingerprinting. HMW complexes are more extensively glycosylated than smaller oligomers. Hydroxylation and glycosylation of the lysine residues within the collagene-like domain of adiponectin seem to be critica involved in regulating the formation and/or secretion of HMW complexes and consequently contribu- to the insulin-sensitizing activity of adiponectin in hepatocytes (By similarity). O-glycosylated. Not N-glycosylated. O-linked glycans on hydroxylysines consist of Glc-Gal disaccharide bound to the oxygen atom of post-translationally added hydroxyl groups. Sialylated to varying degree depending on tissue. Thr-22 appears to be the major site of sialylation. Higher sialylation found in SGF adipocytes than in HEK fibroblasts. Sialylation is not required neither for heterodimerization nor for secretion. Not sialylated on the glycosylated hydroxylysines. Desialylated forms are rapidly cleared fro the circulation.		



ARG80131 Human Adiponectin ELISA Kit standard curve image

ARG80131 Human Adiponectin ELISA Kit results of a typical standard run with optical density reading at 450 nm.