

ARG82678 Mouse Adiponectin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82678-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82678-002	Standard	2 X 20 ng/vial	4°C
ARG82678-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82678-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82678-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82678-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82678-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82678-008	25X Wash buffer	20 ml	4°C
ARG82678-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82678-010	STOP solution	10 ml (Ready to use)	4°C
ARG82678-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82678 Mouse Adiponectin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Adiponectin in Serum, plasma (EDTA, heparin), cell culture supernatant and urine.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Adiponectin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.16 ng/ml
Sample Type	Serum, plasma (EDTA, heparin), cell culture supernatant and urine.
Standard Range	0.312 - 20 ng/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.6% Inter-Assay CV: 6.4%
Alternate Names	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

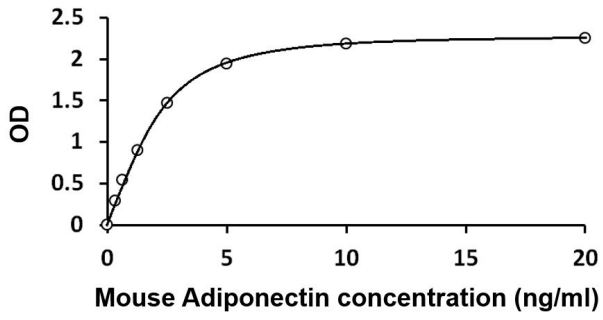
Assay Time	~ 5 hours
------------	-----------

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

Gene Symbol	ADIPOQ
Gene Full Name	adiponectin, C1Q and collagen domain containing
Background	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]
Function	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]
Highlight	Related products: Adiponectin antibodies ; Adiponectin ELISA Kits ; Adiponectin Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	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 collagen-like domain of adiponectin seem to be critically involved in regulating the formation and/or secretion of HMW complexes and consequently contribute 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 disaccharides bound to the oxygen atom of post-translationally added hydroxyl groups. Sialylated to varying degrees depending on tissue. Thr-22 appears to be the major site of sialylation. Higher sialylation found in SGBS 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 from the circulation. [UniProt]



ARG82678 Mouse Adiponectin ELISA Kit standard curve image

ARG82678 Mouse Adiponectin ELISA Kit results of a typical standard run with optical density reading at 450 nm.
