

## ARG10838 anti-Adiponectin antibody [Adn23]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [Adn23] recognizes Adiponectin
Tested Reactivity	Hu
Tested Application	ELISA, FLISA, WB, sELISA
Host	Mouse
Clonality	Monoclonal
Target Name	Adiponectin
Species	Human
Immunogen	Human recombinant adiponectin from E. coli .
Conjugation	Un-conjugated
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

Application table	Application	Dilution
	ELISA	Assay-dependent
	FLISA	Assay-dependent
	WB	5 µg/ml
	sELISA	Assay-dependent

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

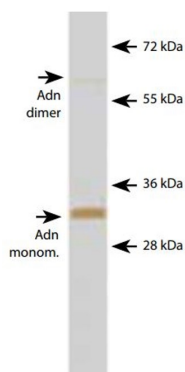
### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

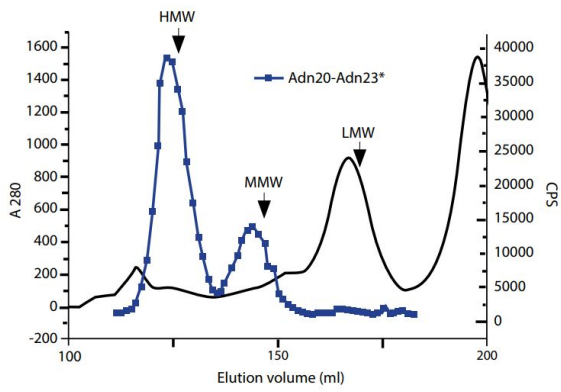
Gene Symbol	ADIPOQ
Gene Full Name	adiponectin, C1Q and collagen domain containing
Background	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with 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]
Calculated Mw	26 kDa
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 collagene-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.

## Images



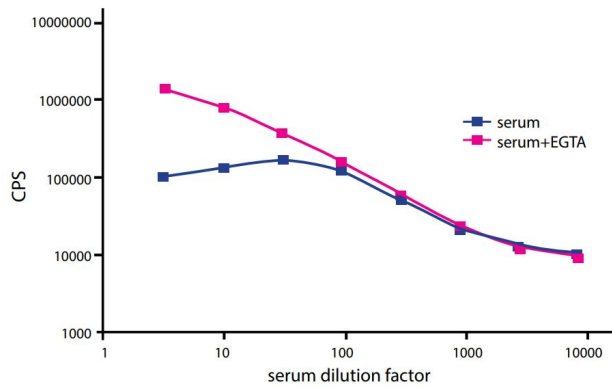
ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23] WB image

Western blot: Detection of native adiponectin with ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23] in WB after SDS-electrophoresis in reducing conditions. 40 ng of native purified adiponectin stained with ARG10838 at 5 µg/ml dilution in phosphate-buffered saline, containing 5% dry milk and 0.1% Tween-20.



**ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23] SELISA image**

Sandwich ELISA in protein fractions after size-exclusion chromatography, measured by capture-detection antibody combinations - anti-Adiponectin antibody [Adn20] - ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23]. 1 ml of normal Human serum was applied onto the column. Positions of oligomeric forms of adiponectin and molecular weight markers are depicted in the picture. The black line presents the optical density detected at 280 nm.



**ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23] FLISA image**

FLISA: Normal Human serum titration curve in sandwich immunofluorescent assay. anti-Adiponectin antibody [Adn20] was used as a coating antibody, ARG10838 anti-Adiponectin (HMW + MMW) antibody [Adn23] was used as a detection antibody. Normal Human serum, serially diluted with PBS, with or without EGTA (10 mM K-phosphate, pH 7.4, 150 mM NaCl, 0.1% Tween-20) was used as an antigen.