ARG10624
anti-Adiponectin antibody [Adn94]

Package: 100 µg, 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [Adn94] recognizes Adiponectin
Tested Reactivity	Hu
Tested Application	ELISA, FLISA, sELISA
Specificity	Human serum adiponectin
Host	Mouse
Clonality	Monoclonal
Clone	Adn94
Isotype	IgG1
Target Name	Adiponectin
Species	Human
Immunogen	Human serum adiponectin
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
sELISA	Assay-dependent

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

Properties

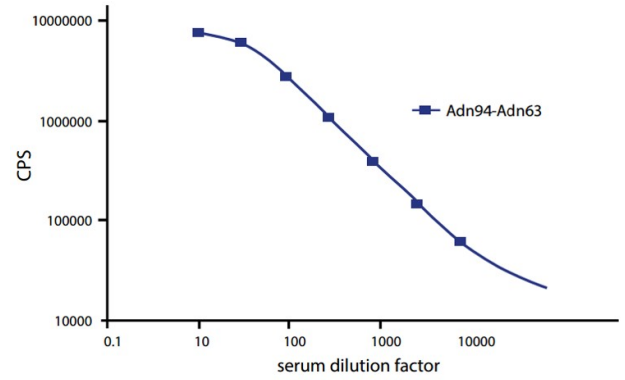
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free 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

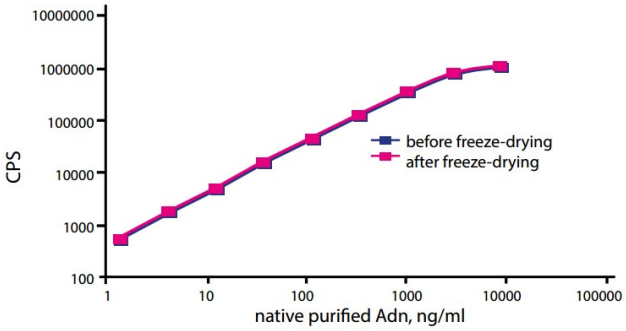
Database links	GeneID: 9370 Human Swiss-port # Q15848 Human
Gene Symbol	ADIPOQ
Gene Full Name	adiponectin, C1Q and collagen domain containing
Background	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded 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 Antibody Duos and Panels: ARG30285 Adiponectin ELISA Antibody Duo Related products: Adiponectin antibodies; Adiponectin ELISA Kits; Adiponectin Duos / Panels; Anti-Mouse IgG secondary antibodies;
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



ARG10624 anti-Adiponectin antibody [Adn94] FLISA image

FLISA: Normal human serum titration curve in sandwich immunofluorescent assay. MAb ARG10624 anti-Adiponectin antibody [Adn94] was used as a coating antibody (1 µg/well), MAb ARG10623 anti-Adiponectin antibody [Adn63] was used as a detection antibody (0.2 µg/well). Normal human serum, serially diluted with phosphatebuffered saline (10 mM K-phosphate, pH 7.4, 150 mM NaCl, 0.1% Tween-20) was used as an antigen.



ARG10624 anti-Adiponectin antibody [Adn94] sELISA image

Sandwich ELISA: Lyophilization does not affect immunological activity of native purified adiponectin measured by assay ARG10624 anti-Adiponectin antibody [Adn94] - ARG10623 anti-Adiponectin antibody [Adn63].