ARG10623
anti-Adiponectin antibody [Adn63]

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

Summary

Product Description	Mouse Monoclonal antibody [Adn63] recognizes Adiponectin
Tested Reactivity	Hu
Tested Application	ELISA, FLISA, WB, sELISA
Specificity	Human serum adiponectin
Host	Mouse
Clonality	Monoclonal
Clone	Adn63
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
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

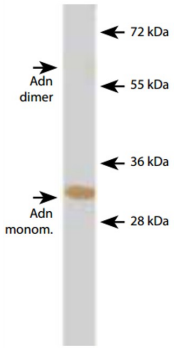
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4) and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free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

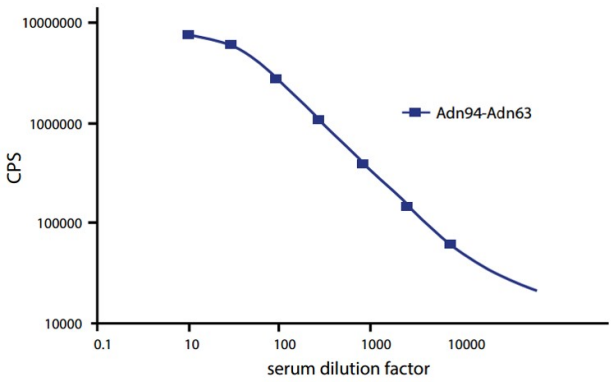
Database links	GeneID: 9370 Human Swiss-port # Q15848 Human
Gene Symbol	ADIPOQ
Gene Full Name	adiponectin, C1Q and collagen domain containing
Background	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded 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	

Images



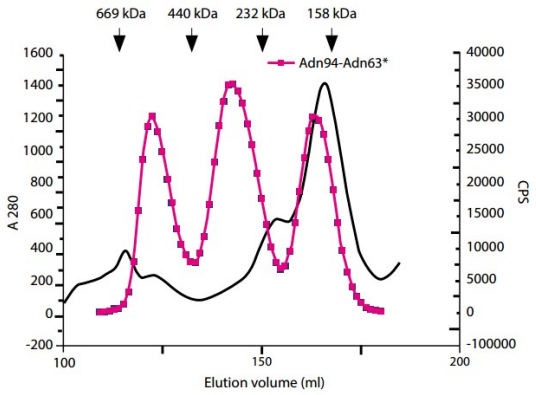
ARG10623 anti-Adiponectin antibody [Adn63] WB image

Western blot: Detection of native adiponectin with ARG10623 anti-Adiponectin antibody [Adn63] in WB after SDS-electrophoresis in reducing conditions. 40 ng of native purified adiponectin stained with ARG10623 anti-Adiponectin antibody [Adn63] at 5 µg/ml dilution in phosphate-buffered saline, containing 5% dry milk and 0.1% Tween-20.



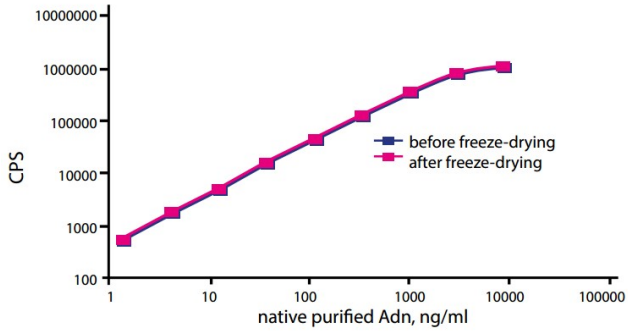
ARG10623 anti-Adiponectin antibody [Adn63] FLISA image

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.



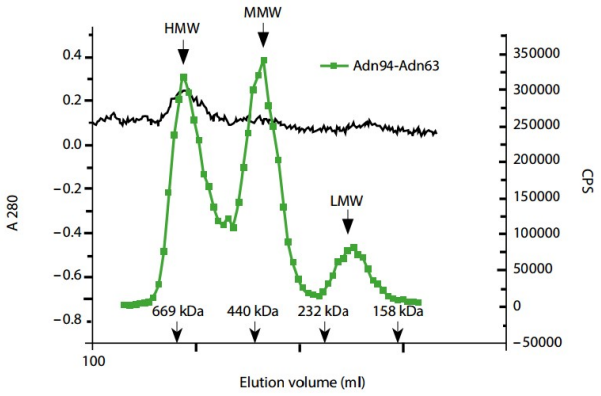
ARG10623 anti-Adiponectin antibody [Adn63] sELISA image

Sandwich ELISA in protein fractions after size-exclusion chromatography, measured by capture-detection antibody combinations - ARG10624 anti-Adiponectin antibody [Adn94] - ARG10623 anti-Adiponectin antibody [Adn63].
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.



ARG10623 anti-Adiponectin antibody [Adn63] 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].



ARG10623 anti-Adiponectin antibody [Adn63] sELISA image

Sandwich ELISA: Native purified adiponectin contains all oligomeric forms.
3 µg of adiponectin was applied onto a gel-filtration column and immunoreactivity in fractions was measured by the sandwich ELISA using ARG10624 anti-Adiponectin antibody [Adn94] and ARG10623 anti-Adiponectin antibody [Adn63] as capture and detection antibodies respectively. Molecular weight markers are depicted by arrows on the x-axis. The black curve represents the optical density measured at 280 nm.