Native Human Adiponectin

Cat. No. ADIPOQ-215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	226AA. MW: 24.54 kDa (calculated without glycosylation).
Species	Human
Source	Human Serum
ProteinLength	226AA
Description	ADIPOQ (also referred to as GBP-28, apM1, AdipoQ and Acrp30) is a protein which in humans is encoded by the ADIPOQ gene.
Molecular Mass	24.54 kDa (calculated without glycosylation).
AA Sequence	ETTTQGPGVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHITVYM KDVKVSLFKK DKAMLFTYDQ YQENNVDQAS GSVLLHLEVG DQVWLQVYGE GERNGLYADN DNDSTFTGFL LYHDTN
Applications	Cell culture and/or animal studies; ELISA; Immunological methods; Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; Gel permeation chromatography to determine purity and oligomeric state of the native protein; LAL to determine quantity of endotoxin; Immunoreactivity is confirmed using monoclonal antibodies specific to human adiponectin

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store lyophilized protein at -20°C. Lyophilized pro-tein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Re-constituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

GENE INFORMATION

Gene Name	ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens]
Official Symbol	ADIPOQ
Synonyms	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC, adipocyte, C1Q and collagen domain containing; adiponectin; ACRP30; AdipoQ; adipose most abundant gene transcript 1; apM1; GBP28; gelatin-binding protein 28; adipose specific collagen-like fa
Gene ID	9370
mRNA Refseq	NM_001177800
Protein Refseq	NP_001171271
MIM	605441
UniProt ID	Q15848

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Chromosome Location	3q27
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; Transcriptional Regulation of White Adipocyte Differentiation, organism-specific biosystem;
Function	cytokine activity; eukaryotic cell surface binding; hormone activity; identical protein binding; protein binding; protein homodimerization activity; receptor binding; sialic acid binding;

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