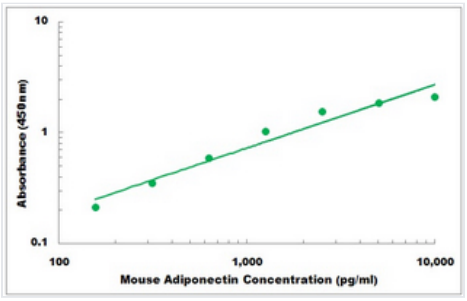
Adiponectin (ADIPOQ) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Adiponectin (ADIPOQ), ELISA Kit
Full Product Name	Mouse Adiponectin ELISA Kit
Product Gene Name	ADIPOQ elisa kit
Product Synonym Names	ACDC; ACRP30; APM1; GBP28; Adiponectin; 30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; ACRP30; Adipocyte, C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; apM-1; Gelatin-binding protein
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates, Urine
Detection Range	156 pg/ml - 10000 pg/ml
Sensitivity	10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	26,809 Da
3D Structure	ModBase 3D Structure for Q60994
Detection Method	Colorimetric
Applications Tested/Suitable for ADIPOQ elisa kit	Sandwich ELISA (SE)
Related Product Information for ADIPOQ elisa kit	Sandwich ELISA for quantitative detection of Mouse Adiponectin concentrations.
Other Notes	Small volumes of ADIPOQ elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADIPOQ purchase	MBS824775 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Adiponectin (ADIPOQ) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ADIPOQ. The ELISA analytical biochemical technique of the MBS824775 kit is based on ADIPOQ antibody-ADIPOQ antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADIPOQ antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADIPOQ. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ADIPOQ elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADIPOQ. It may not necessarily be applicable to this product.

NCBI GI #	87252711
NCBI GeneID	11450
NCBI Accession #	NP_033735.3
UniProt Primary Accession #	Q60994
UniProt Secondary Accession #	Q62400; Q6GTX4; Q9DC68
UniProt Related Accession #	Q60994
GenBank Nucleotide #	NM_009605.4
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	Adipoq
NCBI Official Synonym Symbols	APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30
UniProt Protein Name	Adiponectin
UniProt Synonym Protein Names	30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; ACRP30; Adipocyte, C1q and collagen domain-containing protein; Adipocyte-specific protein AdipoQ
Protein Family	Adiponectin
UniProt Gene Name	Adipoq
UniProt Synonym Gene Names	Acdc; Acrp30; Apm1; ACRP30
UniProt Entry Name	ADIPO_MOUSE
NCBI Protein Information	adiponectin; adipocyte-specific protein AdipoQ; adipocyte complement related protein; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein

UniProt Comments for ADIPOQ	adiponectin: 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. Homomultimer. Forms trimers, hexamers and 12- to 18-mers. The trimers (low molecular weight complexes / LMW) are assembled via non-covalent interactions of the collagen-like domains in a triple helix and hydrophobic interactions within the globular C1q domain. Several trimers can associate to form disulfide-linked hexamers (middle molecular weight complexes / MMW) and larger complexes (higher molecular weight / HMW). The HMW-complex assembly may rely aditionally on lysine hydroxylation and glycosylation. LMW, MMW and HMW complexes bind to HBEGF, MMW and HMW complexes bind to PDGFB, and HMW complex binds to FGF2. Interacts with CTRP9A via the C1q domain (heterotrimeric complex). Synthesized exclusively by adipocytes and secreted into plasma. Protein type: Hormone; Secreted, signal peptide; Secreted; Endoplasmic reticulum Cellular Component: extracellular space; cell surface; collagen; protein complex; endoplasmic reticulum; extracellular region Molecular Function: identical protein binding; protein binding; protein homodimerization activity; hormone activity; sialic acid binding; receptor binding Biological Process: negative regulation of phagocytosis; negative regulation of MAP kinase activity; negative regulation of smooth muscle cell proliferation; negative regulation of hormone secretion; membrane hyperpolarization; positive regulation of cellular protein metabolic process; negative regulation of smooth muscle cell migration; glucose homeostasis; negative regulation of granulocyte differentiation; positive regulation of interleukin-8 production; positive regulation of glucose import; negative regulation of gluconeogenesis; response to glucose stimulus; adiponectin-mediated signaling pathway; negative regulation of protein amino acid autophosphorylation; negative regulation of blood pressure; negative regulation of cell migration; protein homooligomerization; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of signal transduction; negative regulation of heterotypic cell-cell adhesion; glucose metabolic process; negative regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of tumor necrosis factor production; negative regulation of fat cell differentiation; negative regulation of synaptic transmission; membrane depolarization; positive regulation of peptidyl-tyrosine phosphorylation; fatty acid beta-oxidation; positive regulation of fatty acid metabolic process; negative regulation of low-density lipoprotein receptor biosynthetic process; negative regulation of macrophage differentiation; cellular response to insulin stimulus; positive regulation of protein kinase activity; negative regulation of inflammatory response; brown fat cell differentiation; fatty acid oxidation; positive regulation of protein amino acid phosphorylation; negative regulation of transcription, DNA-dependent; positive regulation of myeloid cell apoptosis; positive regulation of blood pressure
Research Articles on ADIPOQ	**1.** A link between mitochondrial biogenesis and dynamics and adiponectin synthesis in white adipocytes, is reported.
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