Adiponectin (ADP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Adiponectin (ADP), Polyclonal Antibody
Full Product Name	Biotin-Linked Antibody to Adiponectin (ADP)
Product Gene Name	anti-ADP antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	Supplied as solution form in PBS, pH7.4, containing 0.02% NaN3,50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against ADP conjugated to biotin. It has been selected for its ability to recognize ADP in immunohistochemical staining andwestern blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Stored at -20 degree C to -80 degree C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Matching Pairs	Biotin Conjugated Antibody: ADP (MBS2003422) Immunogen: ADP (MBS2011327)
Matching Pairs	Unconjugated Antibody: ADP (MBS2004292) Biotin Conjugated Antibody: ADP (MBS2003422)
Molecular Weight	26,414 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (186560463..186576252). Location: 3q27
OMIM	125853
3D Structure	ModBase 3D Structure for Q15848
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Product Categories/Family for anti-ADP antibody	Biotin Antibody
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-ADP antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-ADP antibody	Western blotting: 1:100-400 Immunocytochemistry in formalin fixed cells: 1:100-500 Immunohistochemistry in formalin fixed frozen section: 1:100-500 Immunohistochemistry in paraffin section: 1:50-200 Enzyme-linked Immunosorbent Assay: 1:100-200
Related Product Information for anti-ADP antibody	MBS2003422 is an antibody targeting ADP. Also known as Biotin-Linked Antibody to Adiponectin (ADP). Reactive in Mouse, Rat. Host: Rabbit.

Other Notes	Small volumes of anti-ADP antibody 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.

ADDITIONAL DETAILS

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

NCBI GI #	4757760
NCBI GeneID	9370
NCBI Accession #	NP_004788.1
UniProt Primary Accession #	Q15848
UniProt Secondary Accession #	Q58EX9
UniProt Related Accession #	Q15848
GenBank Nucleotide #	NM_004797.3
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	ADIPOQ
NCBI Official Synonym Symbols	ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1
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; Adipose most abundant gene transcript 1 protein; apM-1; Gelatin-binding protein
UniProt Gene Name	ADIPOQ
UniProt Synonym Gene Names	ACDC; ACRP30; APM1; GBP28; ACRP30; apM-1
UniProt Entry Name	ADIPO_HUMAN
NCBI Protein Information	adiponectin; gelatin-binding protein 28; adipose specific collagen-like factor; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipose most abundant gene transcript 1 protein
NCBI Summary for ADP	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]

UniProt Comments for ADP	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: Secreted; Hormone; Secreted, signal peptide; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 3q27 Cellular Component: extracellular space; collagen; cell surface; endoplasmic reticulum; extracellular region Molecular Function: identical protein binding; protein binding; protein homodimerization activity; hormone activity; cytokine activity; sialic acid binding; receptor binding Biological Process: circadian rhythm; negative regulation of MAP kinase activity; negative regulation of phagocytosis; negative regulation of smooth muscle cell proliferation; negative regulation of hormone secretion; membrane hyperpolarization; positive regulation of cellular protein metabolic process; response to glucocorticoid stimulus; 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; response to nutrient; protein homooligomerization; generation of precursor metabolites and energy; positive regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of heterotypic cell-cell adhesion; positive regulation of signal transduction; 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; response to sucrose stimulus; membrane depolarization; positive regulation of peptidyl-tyrosine phosphorylation; fatty acid beta-oxidation; response to ethanol; positive regulation of fatty acid metabolic process; negative regulation of macrophage differentiation; cellular response to insulin stimulus; negative regulation of low-density lipoprotein receptor biosynthetic process; negative regulation of inflammatory response; brown fat cell differentiation; response to hypoxia; fatty acid oxidation; positive regulation of protein amino acid phosphorylation; response to activity; negative regulation of transcription, DNA-dependent; positive regulation of myeloid cell apoptosis; positive regulation of blood pressure Disease: Adiponectin, Serum Level Of, Quantitative Trait Locus 1
Research Articles on ADP	**1.** Adiponectin gene polymorphisms might be effective on susceptibility for type 2 diabetes development which emerged from the interactions between multiple genes, variants and environmental factors
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