

Adiponectin (ADPN) Active Protein | ADPN active protein

Active Adiponectin (ADPN)

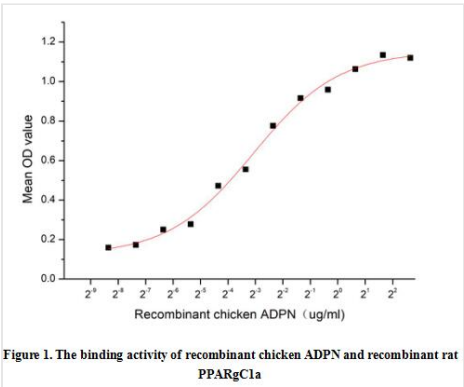
CATALOG # AAA161753	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Adiponectin (ADPN); Active Adiponectin (ADPN); Adiponectin; GBP28; ApM1; AdipoQ; Acrp30; ACDC; APM1; C1Q And Collagen Domain Containing; Adipocyte Complement-Related Protein Of 30 KDa; Adipose Most Abundant Gene Transcript 14; ADPN active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met32~Arg2 44
Applicable Applications for ADPN active protein	Activity Assay, Cell Culture
Species	Chicken
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.4
Research Area	Metabolic pathway, Infection immunity, Cardiovascular biology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

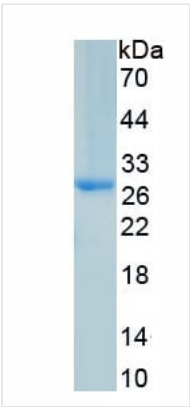


Bioactivity

Human Adiponectin (ADPN) is a 53 kDa member of the PNPLA family of phospholipase A2 enzymes. It is a plasma protein secreted by adipose tissue showing pleiotropic effects with anti-diabetic, anti-atherogenic and anti-inflammatory properties. Adiponectin and AdipoR1 regulate PPARγC1a and mitochondria by Ca(2) and AMPK/SIRT1. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant chicken ADPN and recombinant rat PPARγC1a. Briefly, ADPN was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to PPARγC1a-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ADPN pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant chicken ADPN and recombinant rat PPARγC1a was shown in Figure 1, the EC50 for this effect is 0.12 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for ADPN active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	46195854
NCBI GeneID	404536
NCBI Accession #	NP_996874.1
NCBI GenBank Nucleotide #	NM_206991.1
UniProt Accession #	Q6QWE7
Molecular Weight	26,461 Da
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	ADIPOQ
NCBI Protein Information	adiponectin
UniProt Protein Name	Adiponectin
UniProt Gene Name	ADIPOQ

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.