

ADIPOQ antibody

Catalog No: #38421

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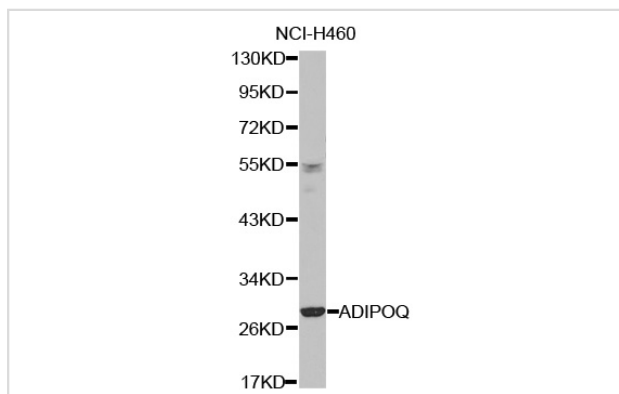
Description

Product Name	ADIPOQ antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total ADIPOQ antibody.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ADIPOQ.
Target Name	ADIPOQ
Other Names	ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1;
Accession No.	Swiss-Prot#: Q15848NCBI Gene ID: 9370
SDS-PAGE MW	28kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: □ 1:500 - 1:2000

Images



Western blot analysis of extracts of NCI-H460 cell line, using ADIPOQ antibody.

Background

Adiponectin, also termed AdipoQ, Acrp30, apM1 and GBP28, is an adipokine expressed exclusively in brown and white adipocytes (1). It is secreted into the blood and exists in three major forms: a low molecular weight trimer, a medium molecular weight hexamer and a high molecular weight multimer (1). Adiponectin levels are decreased in obese and insulin-resistant mice and humans (2), suggesting that this adipokine is critical to maintain insulin sensitivity. Adiponectin stimulates the phosphorylation of AMPK α at Thr172 and activates AMPK in skeletal muscle (3). It also stimulates

glucose uptake in myocytes (3). The block of AMPK activation by a dominant-negative AMPK α 2 isoform inhibits the effect of adiponectin on glucose uptake, indicating that adiponectin stimulates glucose uptake and increases insulin sensitivity through its action on AMPK (3). Adiponectin mutants that are not able to form oligomers larger than trimers have no effect on the AMPK pathway (4). Mutations that render adiponectin unable to form high molecular weight multimers are associated with human diabetes (4), indicating the importance of multimerization for adiponectin activity.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.