E92543

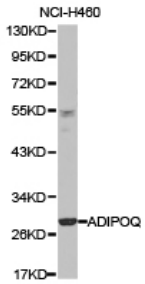
# ADIPOQPolyclonal Antibody

**Catalog Number:** E92543
**Amount:** 100ul
**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 AMPKα 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 AMPKα2 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.
**Species:** Rabbit
**Isotype:** IgG
**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
**Synonyms:** ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1;
**Immunogen:** Recombinant protein of human ADIPOQ
**Purification:** Affinity purification
**Reactivity:** H M R
**Applications:** WB IHC
**Molecular Weight:** 28kDa
**Swiss-Prot No. :** Q15848
**Gene ID:** 9370
**References:** 1. Kadowaki, T. et al. (2006) J. Clin. Invest. 116, 1784-1792. 2. Hu, E. et al. (1996) J. Biol. Chem. 271, 10697-10703. 3. Yamauchi, T. et al. (2002) Nat. Med. 8, 1288-1295. 4. Waki, H. et al. (2003) J. Biol. Chem. 278, 40352-40363.

**For Research Use Only**

WB 1:500 - 1:2000

IHC 1:50- 1:200




Western blot analysis of extracts of NCI-H460cellline, using ADIPOQ antibody.