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# Anti-Adiponectin Antibody

Catalog # ABO11321

## Product Information

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| **Application** | WB, IHC-P, IHC-F, E |
| **Primary Accession** | Q15848 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Format** | Lyophilized |
| **Description** | Rabbit IgG polyclonal antibody for Adiponectin(ADIPOQ) detection. Tested with WB, IHC-P, IHC-F, ELISA in Human;Mouse;Rat. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |

## Additional Information

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| **Gene ID** | 9370 |
| **Other Names** | 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, ADIPOQ, ACDC, ACRP30, APM1, GBP28 |
| **Calculated MW** | 26414 |
| **Application Details** | ELISA , 0.1-0.5 □g/ml, Human, -<br>Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Rat, Human, Mouse<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 □g/ml, Human, Rat, Mouse |
| **Subcellular Localization** | Secreted. |
| **Tissue Specificity** | Synthesized exclusively by adipocytes and secreted into plasma. |
| **Source** | Eukaryota |
| **Protein Name** | Adiponectin |
| **Contents** | Each vial contains 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify Carrier Free" or "No BSA" in your order note. " |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human ADIPOQ(224-244aa LYADNDNDSTFTGFLLYHDTN), different from the related mouse and rat sequences by one amino acid. |

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| **Purification** | Immunogen affinity purified. |
| **Cross Reactivity** | No cross reactivity with other proteins |
| **Storage** | At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing. |
| **Sequence Similarities** | Contains 1 C1q domain. |

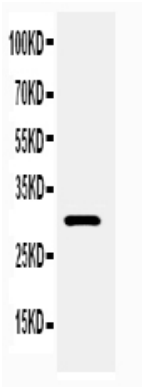
## Protein Information

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| **Name** | ADIPOQ |
| **Function** | Important adipokine involved in the control of fat metabolism and insulin sensitivity upon binding to its receptors ADIPOR1 or ADIPOR2, with direct anti-diabetic effect. Also has anti-atherogenic and anti-inflammatory activities (By similarity). Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion (By similarity). Antagonizes TNF 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 (PubMed:10982546). 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 (By similarity). |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Synthesized exclusively by adipocytes and secreted into plasma. |

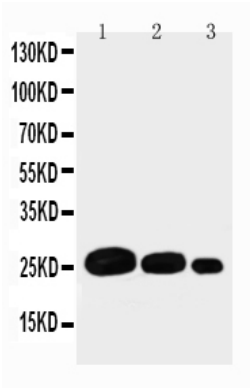
## Background

ADIPOQ(Adipocyte-, C1q-, and Collagen Domain-Containing), also known as APM1, ADPN or ACDC, is a protein which in humans is encoded by the ADIPOQ gene. Using FISH, Das et al.(2001) mapped the mouse Acrp30 gene to chromosome 16 in a region showing homology of synteny with human 3q27. By RNase protection and Western blot analysis, Schaffler et al.(1999) showed that APM1 is expressed by differentiated adipocytes as a 33-kD protein that is also detectable in serum. By sequence comparisons, they found links between APM1 and TNF family ligands as well as to cytokines expressed by T cells. Adiponectin is a protein hormone that modulates a number of metabolic processes, including glucose regulation and fatty acid oxidation. Adiponectin is exclusively secreted from adipose tissue(and also from the placenta in pregnancy) into the bloodstream and is very abundant in plasma relative to many hormones.

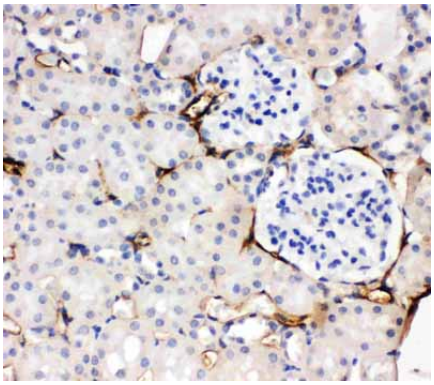
## Images



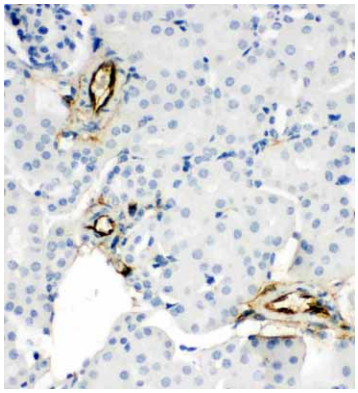

Anti-Adiponectin antibody, ABO11321, Western blottingWB: Rat Heart Tissue Lysate



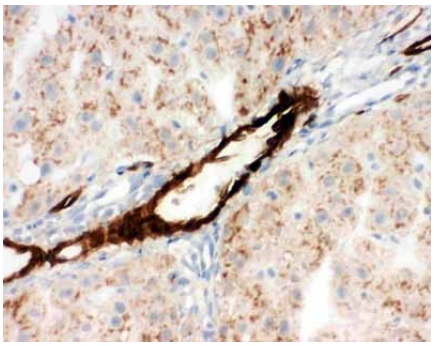

Anti-Adiponectin antibody, ABO11321, Western blottingRecombinant Protein Detection Source: E.coli derived -recombinant Human ADIPOQ, 44.4 KD(162aa tag+ M1-N244)Lane 1: Recombinant Human ADIPOQ Protein 10ngLane 2: Recombinant Human ADIPOQ Protein 5ngLane 3: Recombinant Human ADIPOQ Protein 2.5ng



Anti-Adiponectin antibody, ABO11321, IHC(P)IHC(P): Rat Kidney Tissue

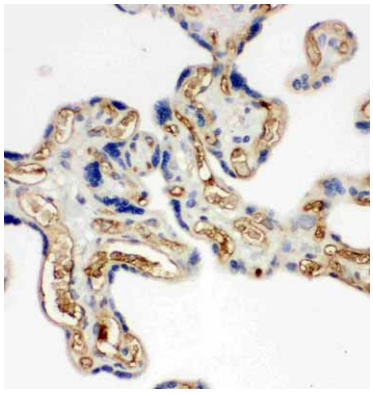


Anti-Adiponectin antibody, ABO11321, IHC(P)IHC(P): Mouse Kidney Tissue



Anti-Adiponectin antibody, ABO11321, IHC(F)IHC(F): Rat Liver Tissue

Anti-Adiponectin antibody, ABO11321, IHC(P)IHC(P): Human Placenta Tissue



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