

Anti-Adiponectin Picoband Antibody

Catalog # ABO11726

Specification

Anti-Adiponectin Picoband Antibody - Product Information

Application WB, IHC-P
Primary Accession Q15848
Host Rabbit
Reactivity Human
Clonality Polyclonal
Format Lyophilized

Description

Rabbit IgG polyclonal antibody for Adiponectin(ADIPOQ) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Adiponectin Picoband Antibody - Additional Information

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 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μg/ml, Human, By Heat
br>Western blot, 0.1-0.5 μg/ml, Human
obr>

Subcellular Localization

Secreted.

Tissue Specificity

Synthesized exclusively by adipocytes and secreted into plasma.

Protein Name

Adiponectin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human adiponectin recombinant protein (Position: E19-N244). Human adiponectin shares 85% amino acid (aa) sequence identity with mouse adiponectin.



Purification Immunogen affinity purified.

Cross ReactivityNo 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 Clq domain.

Anti-Adiponectin Picoband Antibody - Protein Information

Name ADIPOQ

Function

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.

Cellular Location Secreted.

Tissue Location

Synthesized exclusively by adipocytes and secreted into plasma.

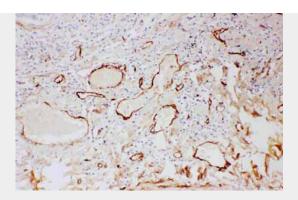
Anti-Adiponectin Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

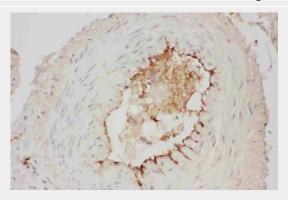
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Adiponectin Picoband Antibody - Images

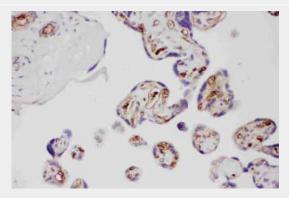




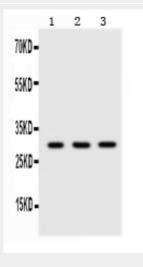
Anti- Adiponectin antibody, ABO11726, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- Adiponectin antibody, ABO11726, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti- Adiponectin antibody, ABO11726, IHC(P)IHC(P): Human Placenta Tissue









Anti- Adiponectin antibody, ABO11726, Western blotting All lanes: Anti Adiponectin (ABO11726) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 30KDObserved bind size: 30KD

Anti-Adiponectin Picoband Antibody - Background

ADIPOQ (Adipocyte-, C1g-, 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 3g27. 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.