

Anti-Adiponectin/ADIPOQ Antibody Picoband™

Catalog Number: PB9001

About ADIPOQ

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.

Overview

Product Name	Anti-Adiponectin/ADIPOQ Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Adiponectin/ADIPOQ Antibody Picoband™ catalog # PB9001. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q15848

Technical Details

Immunogen	E.coli-derived human adiponectin recombinant protein (Position: E19-N244). Human adiponectin shares 85% amino acid (aa) sequence identity with mouse adiponectin.
Predicted Reactive Species	Bovine, Chicken, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-Adiponectin/ADIPOQ Antibody Picoband™ (PB9001) Images

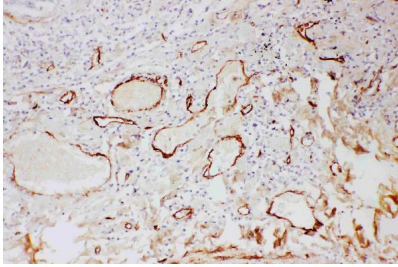


Figure 1. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9001). Adiponectin was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Adiponectin Antibody (PB9001) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

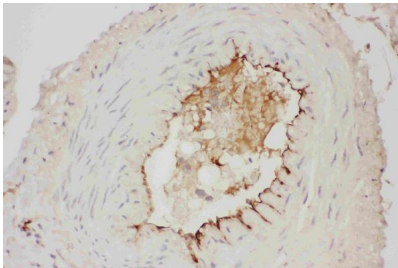


Figure 2. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9001). Adiponectin was detected in a paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Adiponectin Antibody (PB9001) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

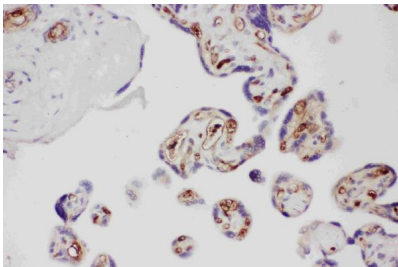


Figure 3. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9001). Adiponectin was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Adiponectin Antibody (PB9001) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

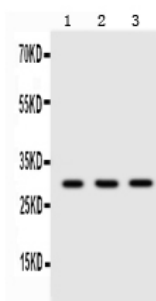


Figure 4. Western blot analysis of Adiponectin using anti-Adiponectin antibody (PB9001). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human placenta tissue lysates, Lane 2: human Hela whole cell lysates, Lane 3: human Jurkat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5

hour at RT. The membrane was incubated with rabbit anti-Adiponectin antigen affinity purified polyclonal antibody (Catalog # PB9001) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Adiponectin at approximately 30 kDa. The expected band size for Adiponectin is at 30 kDa.

3 Publications Citing This Product

1. PubMed ID: 22189196, Liu F, Mu J, Yuan Z, Wu G, Liu E, Zheng S, Lian Q, Ren K, Xu H. Nutrition. 2012 Apr;28(4):422-5. Doi: 10.1016/J.Nut.2011.08.018. Epub 2011 Dec 20. High Salt Intake Fails To Enhance Plasma Adiponectin In Normotensive Salt-Sensitive Subjects.
2. PubMed ID: 23548631, Gao Y, Li F, Zhang Y, Dai L, Jiang H, Liu H, Zhang S, Chen C, Zhang J. Cell Physiol Biochem. 2013;31(2-3):452-61. Doi: 10.1159/000343381. Epub 2013 Mar 15. Silencing Of Adipoq Efficiently Suppresses Preadipocyte Differentiation In Porcine.
3. PubMed ID: 26077651, Qin Jh, Ma Jz, Yang Xw, Hu Yj, Zhou J, Fu Lc, Tian Rh, Liu S, Xu G, Shen Xi. Nat Prod Bioprospect. 2015 Jun;5(3):159-66. Doi: 10.1007/S13659-015-0063-5. Epub 2015 Jun 16. A Triterpenoid Inhibited Hormone-Induced Adipocyte Differentiation And Allev...

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