

Anti-Adiponectin/ADIPOQ Antibody Picoband™

Catalog Number: PB9011

About Adipoq

Adiponectin, also known as APM1 or ACDC, is a protein which in humans is encoded by the ADIPOQ gene. It is mapped to chromosome 16 in a region showing homology of synteny with human 3q27. By RNase protection and Western blot analysis, it has been showed that Adiponectin is expressed by differentiated adipocytes as a 33-kD protein that is also detectable in serum. By sequence comparisons, it has been found that 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. This gene 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	Mouse, Rat
Description	Boster Bio Anti-Adiponectin/ADIPOQ Antibody Picoband™ catalog # PB9011. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat.
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	Q8K3R4

Technical Details

Immunogen	E.coli-derived rat Adiponectin recombinant protein (Position: I19-N244). Rat Adiponectin shares 90% 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, Mouse, Rat, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Rat</p>

Anti-Adiponectin/ADIPOQ Antibody Picoband™ (PB9011) Images

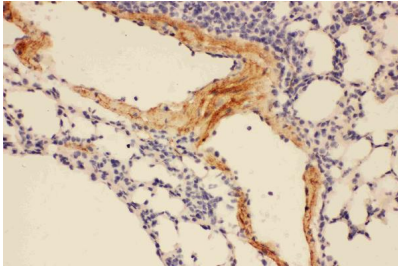


Figure 1. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9011). Adiponectin was detected in paraffin-embedded section of mouse lung tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Adiponectin Antibody (PB9011) 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.

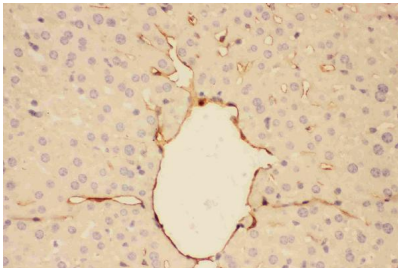


Figure 2. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9011). Adiponectin was detected in paraffin-embedded section of mouse liver tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Adiponectin Antibody (PB9011) 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.

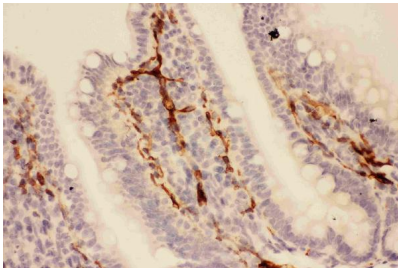


Figure 3. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9011). Adiponectin was detected in paraffin-embedded section of rat intestine tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Adiponectin Antibody (PB9011) 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.

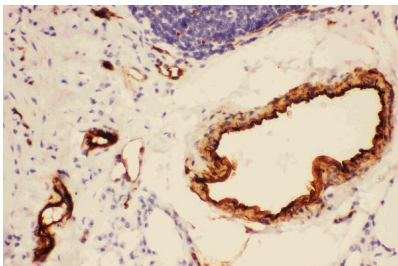


Figure 4. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9011). Adiponectin was detected in paraffin-embedded section of rat lung tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Adiponectin Antibody (PB9011) 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.

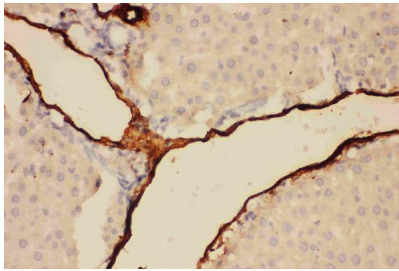


Figure 5. IHC analysis of Adiponectin using anti-Adiponectin antibody (PB9011).

Adiponectin was detected in paraffin-embedded section of rat liver tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Adiponectin Antibody (PB9011) 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.

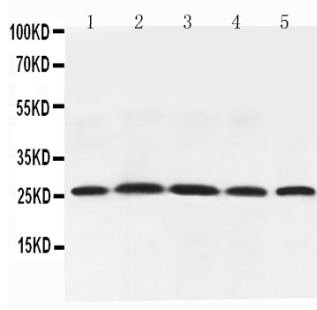


Figure 6. Western blot analysis of Adiponectin using anti-Adiponectin antibody (PB9011).

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 50ug of sample under reducing conditions.

Lane 1: Rat Testis Tissue Lysate,
Lane 2: Rat Spleen Tissue Lysate,
Lane 3: Rat Skeletal Muscle Tissue Lysate,
Lane 4: Rat Cardiac Muscle Tissue Lysate,
Lane 5: Rat Liver Tissue Lysate,

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 # PB9011) 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 1:10000 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 26KD. The expected band size for Adiponectin is at 26KD.

4 Publications Citing This Product

1. PubMed ID: 29201467, Zhang R, Xie X, Yu Q, Feng H, Wang M, Li Y, Liu Y. Neural Plast. 2017;2017:6809745. doi: 10.1155/2017/6809745. Epub 2017 Oct 22. Constitutive Expression of Adiponectin in Endothelial Progenitor Cells Protects a Rat Model of Cerebral Ischemia
2. 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.
3. 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.

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