

Anti-Adiponectin/ADIPOQ Antibody

Catalog Number: PA2014-1

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

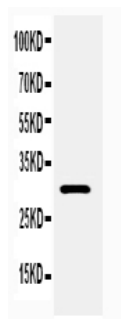
Product Name	Anti-Adiponectin/ADIPOQ Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Adiponectin/ADIPOQ Antibody catalog # PA2014-1. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 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

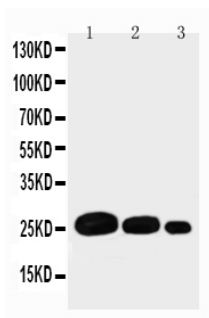
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ADIPOQ, different from the related mouse and rat sequences by one amino acid.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and IHC(F).
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: ELISA , 0.1-0.5ug/ml, Human, - Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Rat, Human, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

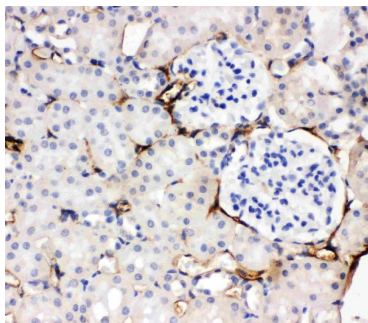
Anti-Adiponectin/ADIPOQ Antibody (PA2014-1) Images



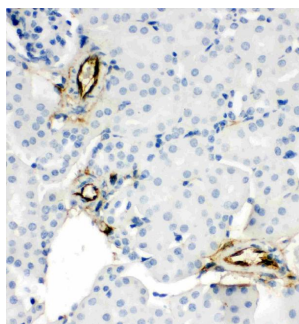
Anti-Adiponectin antibody, PA2014-1, Western blotting
WB: Rat Heart Tissue Lysate



Anti-Adiponectin antibody, PA2014-1, Western blotting
Recombinant Protein Detection Source: E.coli derived
-recombinant Human ADIPOQ, 44.4 KD (162aa tag+
M1-N244)
Lane 1: Recombinant Human ADIPOQ Protein 10ng
Lane 2: Recombinant Human ADIPOQ Protein 5ng
Lane 3: Recombinant Human ADIPOQ Protein 2.5ng

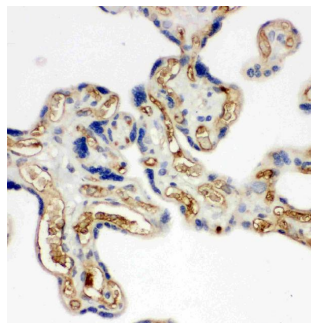
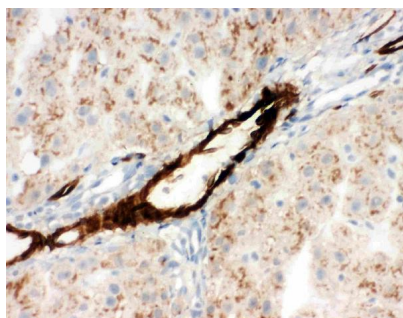


Anti-Adiponectin antibody, PA2014-1, IHC(P)
IHC(P): Rat Kidney Tissue



Anti-Adiponectin antibody, PA2014-1, IHC(P)
IHC(P): Mouse Kidney Tissue

Anti-Adiponectin antibody, PA2014-1, IHC(F)
IHC(F): Rat Liver Tissue



Anti-Adiponectin antibody, PA2014-1, IHC(P)
IHC(P): Human Placenta Tissue

5 Publications Citing This Product

1. PubMed ID: 10.3390/ijms22147280, Prolonged Chronic Consumption of a High Fat with Sucrose Diet Alters the Morphology of the Small Intestine
2. 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
3. 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.

Visit bosterbio.com/anti-adiponectin-antibody-pa2014-1-boster.html to see all 5 publications.

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