

Anti-Angiotensinogen/AGT Antibody

Catalog Number: PA1643

About Agt

AGT (ANGIOTENSINOGEN), also called SERPINA8, is an alpha-2-globulin that is produced constitutively and released into the circulation mainly by the liver. ATG is a member of the serpin family, although it is not known to inhibit other enzymes, unlike most serpins. Angiotensinogen is also known as renin substrate. The AGT gene is mapped on 1q42.2. And the human angiotensinogen gene contains 5 exons. The expression of AGT and enzymes required for its conversion to angiotensin II in human adipose tissue. Western blot analysis showed a distinct band of expected size of the angiotensinogen protein (61 kD) in isolated adipocytes. The more pronounced AGT increase in TT subjects resulted in similar plasma renin activity at a lower plasma active renin concentration, with a higher plasma renin activity/active renin ratio.

Overview

Product Name	Anti-Angiotensinogen/AGT Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Angiotensinogen/AGT Antibody catalog # PA1643. Tested in IHC, WB applications. This antibody reacts with Mouse.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	P11859

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse Angiotensinogen, identical to the related rat sequence.
Predicted Reactive Species	Bovine
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>Western blot, 0.1-0.5ug/ml, Mouse</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mouse</p>

Anti-Angiotensinogen/AGT Antibody (PA1643) Images

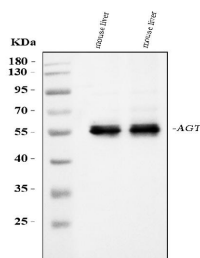


Figure 1. Western blot analysis of Angiotensinogen/AGT using anti-Angiotensinogen/AGT antibody (PA1643). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse liver tissue lysates,

Lane 2: mouse liver tissue 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-Angiotensinogen/AGT antigen affinity purified polyclonal antibody (Catalog # PA1643) 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 Angiotensinogen/AGT at approximately 55 kDa. The expected band size for Angiotensinogen/AGT is at 53 kDa.

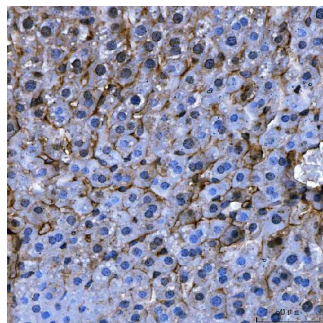


Figure 2. IHC analysis of Angiotensinogen/AGT using anti-Angiotensinogen/AGT antibody (PA1643). Angiotensinogen/AGT was detected in a paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Angiotensinogen/AGT Antibody (PA1643) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 21956205, Lan F, Yue X, Han L, Shi Z, Yang Y, Pu P, Yao Z, Kang C. Int J Oncol. 2012 Feb;40(2):519-26. Doi: 10.3892/Ijo.2011.1215. Epub 2011 Sep 28. Genome-Wide Identification Of Tcf7L2/Tcf4 Target Mirnas Reveals A Role For Mir-21 In Wnt-Driven Epithelial C...

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