

## Anti-Angiotensin II Type 1 Receptor/AGTR1 Antibody Picoband™

Catalog Number: PB9470

### About AGTR1

AGTR1 is known as Angiotensin II Type 1 Receptor. Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone secretion. It is an important effector controlling blood pressure and volume in the cardiovascular system. And it acts through at least two types of receptors. This gene encodes the type 1 receptor which is thought to mediate the major cardiovascular effects of angiotensin II. Moreover, this gene may play a role in the generation of reperfusion arrhythmias following restoration of blood flow to ischemic or infarcted myocardium. It was previously thought that a related gene, denoted as AGTR1B, existed; however, it is now believed that there is only one type 1 receptor gene in humans. Multiple alternatively spliced transcript variants have been reported for this gene.

### Overview

Product Name	Anti-Angiotensin II Type 1 Receptor/AGTR1 Antibody Picoband™
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-Angiotensin II Type 1 Receptor/AGTR1 Antibody Picoband™ catalog # PB9470. Tested in IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
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	P30556

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human AGTR1, 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).
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, Monkey, Mouse, Rat</p>

## Anti-Angiotensin II Type 1 Receptor/AGTR1 Antibody Picoband™ (PB9470) Images

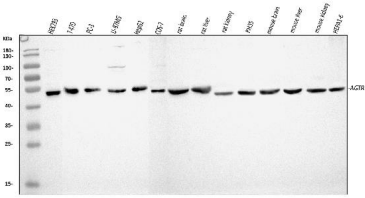


Figure 1. Western blot analysis of AGTR1 using anti-AGTR1 antibody (PB9470).

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 HEK293 whole cell lysates,

Lane 2: human T-47D whole cell lysates,

Lane 3: human PC-3 whole cell lysates,

Lane 4: human U-87MG whole cell lysates,

Lane 5: human HepG2 whole cell lysates,

Lane 6: monkey COS-7 whole cell lysates,

Lane 7: rat brain tissue lysates,

Lane 8: rat liver tissue lysates,

Lane 9: rat kidney tissue lysates,

Lane 10: rat RH35 whole cell lysates,

Lane 11: mouse brain tissue lysates,

Lane 12: mouse liver tissue lysates,

Lane 13: mouse kidney tissue lysates,

Lane 14: mouse HEPA1-6 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-AGTR1 antigen affinity purified polyclonal antibody (Catalog # PB9470) 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 AGTR1 at approximately 50 kDa. The expected band size for AGTR1 is at 41 kDa.

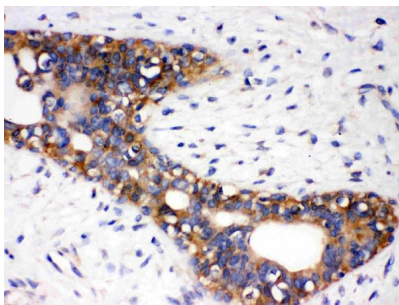


Figure 2. IHC analysis of AGTR1 using anti-AGTR1 antibody (PB9470).

AGTR1 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-AGTR1 Antibody (PB9470) 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.

## 2 Publications Citing This Product

1. PubMed ID: 16425421, Effects of angiotensin II receptor antagonist, Losartan on the apoptosis, proliferation and migration of the human pancreatic stellate cells

2. PubMed ID: 27069537, Angiotensin II induces apoptosis of human pulmonary microvascular endothelial cells in acute aortic dissection

complicated with lung injury patients through modulating the expression of monocyte chemoattractant protein-1

Visit [bosterbio.com/anti-agtr1-picoband-trade-antibody-pb9470-boster.html](https://bosterbio.com/anti-agtr1-picoband-trade-antibody-pb9470-boster.html) to see all 2 publications.

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