

**Anti-AGTR1 Picoband Antibody**  
Catalog # ABO12159**Specification****Anti-AGTR1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P30556</a>
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Type-1 angiotensin II receptor (AGTR1) detection. Tested with WB, IHC-P in Human; Mouse.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-AGTR1 Picoband Antibody - Additional Information**

**Gene ID** 185

**Other Names**

Type-1 angiotensin II receptor, AT1AR, AT1BR, Angiotensin II type-1 receptor, AT1, AGTR1, AGTR1A, AGTR1B, AT2R1, AT2R1B

**Calculated MW**

41061 MW KDa

**Application Details**

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, Mouse

**Subcellular Localization**

Cell membrane; Multi-pass membrane protein.

**Tissue Specificity**

Liver, lung, adrenal and adrenocortical adenomas.

**Protein Name**

Type-1 angiotensin II receptor

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human AGTR1 (1-28aa MILNSSTEDGIKRIQDDCPKAGRHNHYIF), different from the related mouse and rat sequences by one amino acid.

### Purification

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

### Sequence Similarities

Belongs to the G-protein coupled receptor 1 family.

## Anti-AGTR1 Picoband Antibody - Protein Information

Name AGTR1 ([HGNC:336](#))

### Function

Receptor for angiotensin II, a vasoconstricting peptide, which acts as a key regulator of blood pressure and sodium retention by the kidney (PubMed:<a href="http://www.uniprot.org/citations/15611106" target="\_blank">15611106</a>, PubMed:<a href="http://www.uniprot.org/citations/1567413" target="\_blank">1567413</a>, PubMed:<a href="http://www.uniprot.org/citations/25913193" target="\_blank">25913193</a>, PubMed:<a href="http://www.uniprot.org/citations/26420482" target="\_blank">26420482</a>, PubMed:<a href="http://www.uniprot.org/citations/30639100" target="\_blank">30639100</a>, PubMed:<a href="http://www.uniprot.org/citations/32079768" target="\_blank">32079768</a>, PubMed:<a href="http://www.uniprot.org/citations/8987975" target="\_blank">8987975</a>). The activated receptor in turn couples to G-alpha proteins G(q) (GNAQ, GNA11, GNA14 or GNA15) and thus activates phospholipase C and increases the cytosolic Ca(2+) concentrations, which in turn triggers cellular responses such as stimulation of protein kinase C (PubMed:<a href="http://www.uniprot.org/citations/15611106" target="\_blank">15611106</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein

### Tissue Location

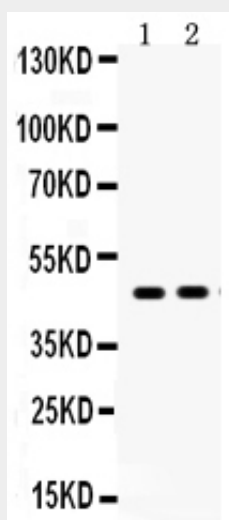
Liver, lung, adrenal and adrenocortical adenomas.

## Anti-AGTR1 Picoband Antibody - Protocols

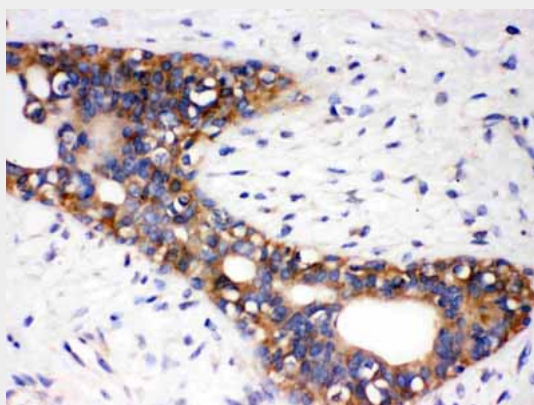
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-AGTR1 Picoband Antibody - Images



Anti- AGTR1 Picoband antibody, ABO12159, Western blotting All lanes: Anti AGTR1 (ABO12159) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: HEPA Whole Cell Lysate at 40ug Predicted bind size: 47KD Observed bind size: 47KD



Anti- AGTR1 Picoband antibody, ABO12159, IHC(P) IHC(P): Human Mammary Cancer Tissue

#### **Anti-AGTR1 Picoband Antibody - Background**

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.