

Anti-AGTR1 Picoband Antibody

Catalog # ABO12159

Specification

## Anti-AGTR1 Picoband Antibody - Product Information

ApplicationWB, IHC-PPrimary AccessionP30556HostRabbitReactivityHuman, MouseClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Type-1 angiotensin II receptor(AGTR1) detection. Tested withWB, 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<br>Western blot, 0.1-0.5 μg/ml, Human, Mouse<br>

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 Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human AGTR1 (1-28aa MILNSSTEDGIKRIQDDCPKAGRHNYIF), 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/30639100" target="\_blank">30639100</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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### **Anti-AGTR1 Picoband Antibody - Images**



130KD - 1 2 100KD - 70KD - 55KD - 35KD - 25KD - 15KD - 15K

Anti- AGTR1 Picoband antibody, ABO12159, Western blottingAll lanes: Anti AGTR1 (ABO12159) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: HEPA Whole Cell Lysate at 40ugPredicted bind size: 47KDObserved 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.