

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

Anti-AGTR1 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P30556
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 Na₂HPO₄, 0.05mg Na₃.

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 reconstitution, 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:[15611106](http://www.uniprot.org/citations/15611106), PubMed:[1567413](http://www.uniprot.org/citations/1567413), PubMed:[25913193](http://www.uniprot.org/citations/25913193), PubMed:[26420482](http://www.uniprot.org/citations/26420482), PubMed:[30639100](http://www.uniprot.org/citations/30639100), PubMed:[32079768](http://www.uniprot.org/citations/32079768), PubMed:[8987975](http://www.uniprot.org/citations/8987975)). 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:[15611106](http://www.uniprot.org/citations/15611106)).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

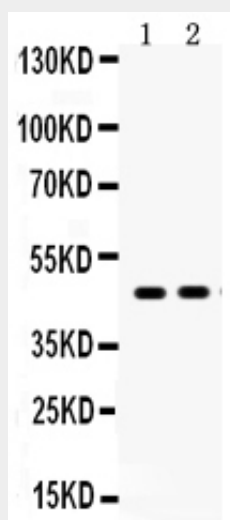
Liver, lung, adrenal and adrenocortical adenomas.

Anti-AGTR1 Picoband Antibody - Protocols

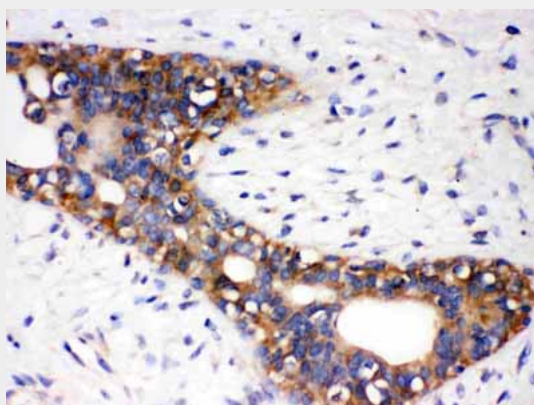
Provided below are standard protocols that you may find useful for product applications.

- [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.