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Tel: 858.875.1900 Fax: 858.875.1999

Anti-AGTR1 Picoband Antibody

Catalog # ABO12159

Specification

Anti-AGTR1 Picoband Antibody - Product Information

Application	**WB, IHC**
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 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:15611106, PubMed:1567413, PubMed:25913193, PubMed:26420482, PubMed:30639100, PubMed:32079768, PubMed: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).

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 Cytomety
- Cell Culture

Anti-AGTR1 Picoband Antibody - Images

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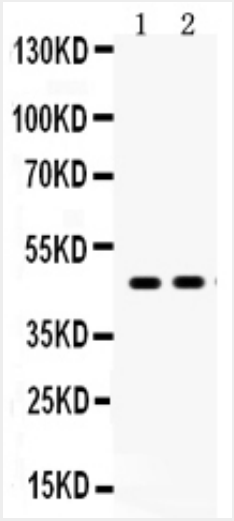
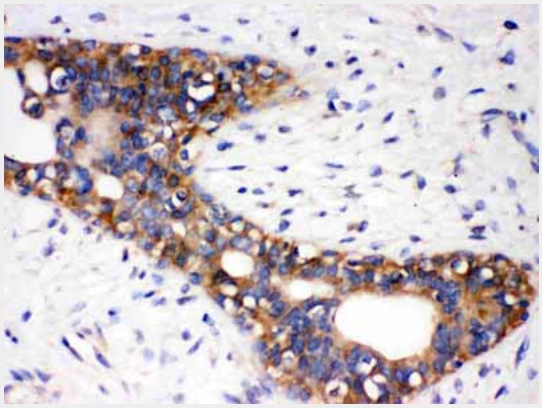


Anti- AGTR1 Picoband antibody, ABO12159, Western blottingAll lanes: Anti AGTR1 (ABO12159) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: HEPA Whole Cell Lysate at 40ugPredicted bind size: 47KDObserved bind size: 47KD



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.