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Anti-AGTR1 Picoband Antibody

Catalog # ABO12159

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse
Subcellular Localization	Cell membrane; Multi-pass membrane protein.
Tissue Specificity	Liver, lung, adrenal and adrenocortical adenomas.
Source	Eukaryota
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.

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.

Background

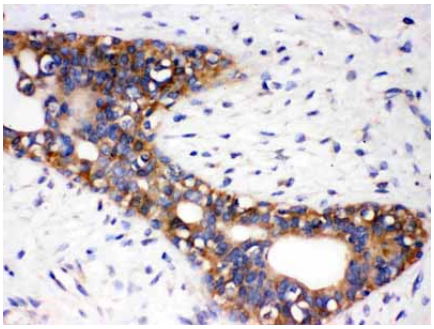
AGTR1 is known as Angiotensin II Type 1 Receptor. Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone secretion. It is an important effector controlling blood pressure and volume in the cardiovascular system. And it acts through at least two types of receptors. This 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.

Images



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



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