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AGTR1 Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP10119b

Specification

AGTR1 Antibody (Center) Blocking peptide - Product Information

Primary Accession	P30556
Other Accession	NP_114438.1, NP_114038.1, NP_004826.2, NP_033611.1, NP_000676.1

AGTR1 Antibody (Center) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AGTR1 Antibody (Center) Blocking peptide - 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:1567413, PubMed:8987975, PubMed:15611106, PubMed:25913193, PubMed:26420482, PubMed:30639100, PubMed:32079768). 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.

AGTR1 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

AGTR1 Antibody (Center) Blocking peptide - Images

AGTR1 Antibody (Center) Blocking peptide - Background

Angiotensin II is a potent vasopressor hormone and aprimary regulator of aldosterone secretion. It is an importanteffector controlling blood pressure and volume in thecardiovascular system. It acts through at least two types ofreceptors. This gene encodes the type 1 receptor which is thoughtto mediate the major cardiovascular effects of angiotensin II. Thisgene may play a role in the generation of reperfusion arrhythmiasfollowing restoration of blood flow to ischemic or infarctedmyocardium. It was previously thought that a related gene, denotedas AGTR1B, existed; however, it is now believed that there is onlyone type 1 receptor gene in humans. At least five transcriptvariants have been described for this gene. Additional variantshave been described but their full-length nature has not beendetermined. The entire coding sequence is contained in the terminalexon and is present in all transcript variants. [provided byRefSeq].

AGTR1 Antibody (Center) Blocking peptide - References

Xu, M., et al. Atherosclerosis 213(1):191-199(2010)Niu, W., et al. Hypertens. Res. 33(11):1137-1143(2010)Procopciuc, L.M., et al. Eur. J. Intern. Med. 21(5):414-418(2010)Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :Schuur, M., et al. J. Neurol. Neurosurg. Psychiatr. (2010) In press :