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AGTR1 Antibody
Catalog # ASC10977

Specification

AGTR1 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	P30556
Other Accession	EAW78909, 119599315
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**AGTR1 antibody can be used for detection of AGTR1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

AGTR1 Antibody - Additional Information

Gene ID **185**

Target/Specificity
AGTR1;

Reconstitution & Storage
AGTR1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
AGTR1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

AGTR1 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

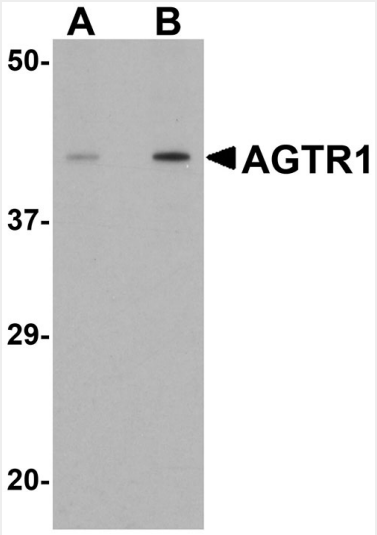
Tissue Location
Liver, lung, adrenal and adrenocortical adenomas.

AGTR1 Antibody - Protocols

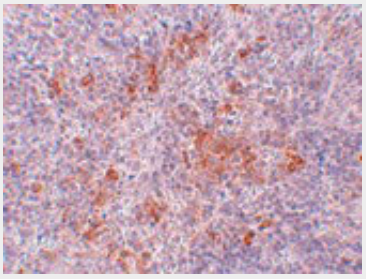
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AGTR1 Antibody - Images



Western blot analysis of AGTR1 in mouse kidney tissue lysate with AGTR1 antibody at (A) 1 and (B) 2 µg/mL.



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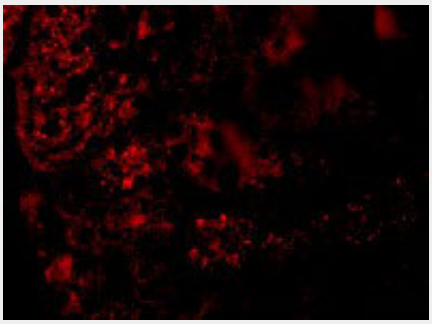
Immunohistochemistry of AGTR1 in mouse kidney tissue with AGTR1 antibody at 2.5 µg/mL.



Immunofluorescence of AGTR1 in Mouse Kidney cells with AGTR1 antibody at 20 µg/mL.

AGTR1 Antibody - Background

AGTR1 Antibody: Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone secretion that acts through at least two types of receptors, AGTR1 and AGTR2. It is an important effector controlling blood pressure and volume in the cardiovascular system and plays a major role in the development of the mammalian kidney and urinary tract. AGTR1, the type 1 receptor, is thought to mediate the major cardiovascular effects of angiotensin II and may play a role in the generation of reperfusion arrhythmias following restoration of blood flow to ischemic or infarcted myocardium. AGTR1 has recently been found to regulate the differentiation of bone marrow-derived monocyte lineage progenitors from hematopoietic stem cells, indicating the diversity of the roles of AGTR1.

AGTR1 Antibody - References

Mottl AK, Shoham DA, and North KE. Angiotensin II type 1 receptor polymorphisms and susceptibility to hypertension: A HuGE review. Gen. in Med.2008; 10:560-574.
Miyazaki Y and Ichikawa I. Role of the angiotensin receptor in the development of the mammalian kidney and urinary tract. Comp. Biochem. Physiol. A Mol. Integr. Physiol.2001; 128:89-97.
Tsubakimoto Y, Yamada H, Yokoi H, et al. Bone marrow angiotensin AT1 receptor regulates differentiation of monocyte lineage progenitors from hematopoietic stem cells. Arterioscler. Thromb. Vasc. Biol.2009; 29:1529-36.