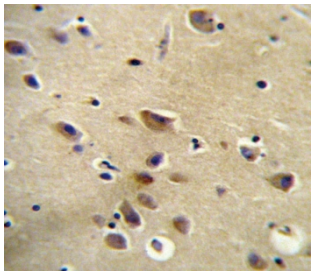
# Angiotensin II Type 1 Receptor Antibody / AGTR1 / AT1R (F54336)

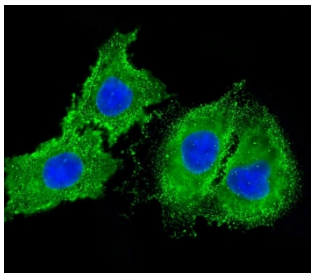
| Catalog No. | Formulation | Size |
|---|---|---|
| F54336-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54336-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

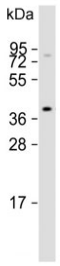
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Antigen affinity purified |
| **UniProt** | P30556 |
| **Applications** | Immunohistochemistry (FFPE) : 1:25<br>Western Blot : 1:500-1:2000<br>Flow Cytometry : 1:25 (1x10e6 cells)<br>Immunofluorescence : 1:25 |
| **Limitations** | This Angiotensin II Type 1 Receptor antibody is available for research use only. |



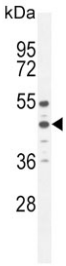
IHC testing of FFPE human brain tissue with Angiotensin II Type 1 Receptor antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



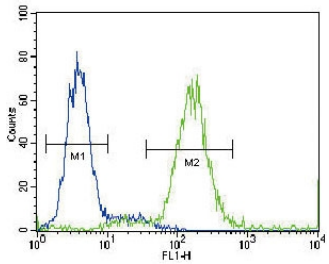
Immunofluorescent staining of fixed and permeabilized human HepG2 cells with Cytokeratin 18 antibody (green) and DAPI nuclear stain (blue).




Western blot testing of mouse NIH 3T3 cell lysate with Angiotensin II Type 1 Receptor antibody. Observed molecular weight: 41-50 kDa depending on glycosylation level.




Western blot testing of human HepG2 cell lysate with Angiotensin II Type 1 Receptor antibody. Observed molecular weight: 41-50 kDa depending on glycosylation level.




Flow cytometry testing of fixed and permeabilized human HepG2 cells with Angiotensin II Type 1 Receptor antibody; Blue=isotype control, Green= Angiotensin II Type 1 Receptor antibody.

## Description

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. 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. 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. At least five transcript variants have been described for this gene. Additional variants have been described but their full-length nature has not been determined. The entire coding sequence is contained in the terminal exon and is present in all transcript variants. [provided by RefSeq].

## Application Notes

The stated application concentrations are suggested starting points. Titration of the Angiotensin II Type 1 Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 211-240 from the human protein was used as the immunogen for the Angiotensin II Type 1 Receptor antibody.

## Storage

Aliquot the Angiotensin II Type 1 Receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.