# Product datasheet

## Anti-Angiotensin II Type 1 Receptor antibody ab124505

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Our Abpromise guarantee covers the use of ab124505 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Function
Receptor for angiotensin II. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

### Tissue specificity
Liver, lung, adrenal and adrenocortical adenomas.

### Involvement in disease
Defects in AGTR1 are a cause of renal tubular dysgenesis (RTD) [MIM:267430]. RTD is an autosomal recessive severe disorder of renal tubular development characterized by persistent fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype).

### Sequence similarities
Belongs to the G-protein coupled receptor 1 family.

### Post-translational modifications
C-terminal Ser or Thr residues may be phosphorylated.

### Cellular localization
Cell membrane.

### Application | Abreviews | Notes
--- | --- | ---
ICC/IF |  | Use a concentration of 20 µg/ml.

**WB**

*Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 41 kDa. Can be blocked with Angiotensin II Type 1 Receptor peptide (ab176148).*

IHC-P

*Use a concentration of 2.5 µg/ml.*

**Target**

**Function**
Receptor for angiotensin II. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system.

**Tissue specificity**
Liver, lung, adrenal and adrenocortical adenomas.

**Involvement in disease**
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**Sequence similarities**
Belongs to the G-protein coupled receptor 1 family.

**Post-translational modifications**
C-terminal Ser or Thr residues may be phosphorylated.

**Cellular localization**
Cell membrane.

**Images**

- **Lane 1**: Anti-Angiotensin II Type 1 Receptor antibody (ab124505) at 1 µg/ml
- **Lane 2**: Anti-Angiotensin II Type 1 Receptor antibody (ab124505) at 2 µg/ml
- **All lanes**: Mouse kidney tissue lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size**: 41 kDa
Immunocytochemistry/Immunofluorescence - Anti-Angiotensin II Type 1 Receptor antibody (ab124505)

Immunofluorescence of AGTR1 in mouse kidney cells using ab124505 at 20 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Angiotensin II Type 1 Receptor antibody (ab124505)

Immunohistochemical analysis of mouse kidney tissue section labelling Angiotensin II Type 1 Receptor with ab124505, at 2.5 µg/ml.

ab124505, at 2.5 µg/ml, staining Angiotensin II Type 1 Receptor in paraffin-embedded Mouse kidney tissue by Immunohistochemistry.

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