**Product datasheet**

**Anti-Angiotensin II Type 1 Receptor antibody ab124505**

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**Overview**

**Product name**  Anti-Angiotensin II Type 1 Receptor antibody

**Description**  Rabbit polyclonal to Angiotensin II Type 1 Receptor

**Host species**  Rabbit

**Specificity**  ab124505 is specific for Angiotensin II Type 1 Receptor (AGTR1) and will not cross-react with AGTR2.

**Tested applications**  Suitable for: ICC/IF, WB, IHC-P

**Species reactivity**  Reacts with: Mouse, Rat, Human

**Immunogen**  Synthetic peptide corresponding to Human Angiotensin II Type 1 Receptor (internal sequence).

Database link: P30556

(Peptide available as ab176148)

**Positive control**  Mouse kidney tissue lysate; Mouse kidney tissue, mouse kidney cells.

**Properties**

**Form**  Liquid

**Storage instructions**  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Avoid freeze / thaw cycle.

**Storage buffer**  Preservative: 0.02% Sodium azide

Constituent: 99% PBS

**Purity**  Immunogen affinity purified

**Clonality**  Polyclonal

**Isotype**  IgG

**Applications**

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.

Images

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 20 µg/ml.</td>
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<tr>
<td>WB</td>
<td>★★★★☆☆☆☆</td>
<td>Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 41 kDa. Can be blocked with Angiotensin II Type 1 Receptor peptide (ab176148).</td>
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<tr>
<td>IHC-P</td>
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<td>Use a concentration of 2.5 µg/ml.</td>
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Target

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

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<table>
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<tr>
<th>Lane 1</th>
<th>Anti-Angiotensin II Type 1 Receptor antibody (ab124505) at 1 µg/ml</th>
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<tr>
<td>Lane 2</td>
<td>Anti-Angiotensin II Type 1 Receptor antibody (ab124505) at 2 µg/ml</td>
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All lanes: Mouse kidney tissue lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 41 kDa
Immunofluorescence of AGTR1 in mouse kidney cells using ab124505 at 20 µg/ml.

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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