

# Rabbit Anti-Angiotensin II Type 1 Receptor antibody

SL0630R

**Product Name** Angiotensin II Type 1 Receptor

**Chinese Name** 血管紧张素II-1 型受体抗体

**Alias**

AG2S; Agtr 1; Agtr1; Agtr1a; AGTR1B; Angiotensin II receptor type 1; Angiotensin II type 1 receptor; AT-1B; AT-1r; AT1; At1a; AT1AR; AT1B; AT1BR; AT2R1; AT2R1A; AT2R1B; HAT1R; Type 1 angiotensin II receptor; AGTR1\_HUMAN; Type-1 angiotensin II receptor; Angiotensin II type-1 receptor; AT1R; Ang II; Angiotensin II receptor type 1; Angiotensin II type 1 receptor; Angiotensin receptor 1; Angiotensin receptor 1B; AT 1B; AT1; AT1R. 血管紧张素 II 1 型受体;

**Research Area**

Cardiovascular Cell biology The cell membrane 受体

**Immunogen Species**

Rabbit

**Clonality**

Polyclonal

**React Species**

Human, Mouse, Rat, (predicted: Cow, Sheep, )

**Applications**

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight**

39kDa

**Cellular localization**

cytoplasmic The cell membrane

**Form**

Liquid

**Concentration** 1mg/ml

**immunogen**

KLH conjugated synthetic peptide derived from human AT1R: 151-250/359  
<Extracellular>

**Lsotype**

IgG

**Purification**

affinity purified by Protein A

**Buffer**

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.



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**Solution**

**Storage**

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

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].

**Function:**

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

**Subunit:**

Interacts with MAS1 (Probable). Interacts with ARRB1.

**Product  
Detail**

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Liver, lung, adrenal and adrenocortical adenomas.

**Post-translational modifications:**

C-terminal Ser or Thr residues may be phosphorylated.

**DISEASE:**

Renal tubular dysgenesis (RTD) [MIM:267430]: 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). Note=The disease is caused by mutations affecting the gene represented in this entry.

**Similarity:**

Belongs to the G-protein coupled receptor 1 family.

**SWISS:**  
P30556

**Gene ID:**  
185

**Database links:**

[Entrez Gene: 185](#) Human

[Entrez Gene: 11607](#) Mouse

[Entrez Gene: 11608](#) Mouse

[Entrez Gene: 24180](#) Rat

[Entrez Gene: 81638](#) Rat

[Omim: 106165](#) Human

[SwissProt: P30556](#) Human

[SwissProt: P29754](#) Mouse

[SwissProt: P29755](#) Mouse

[SwissProt: P25095](#) Rat

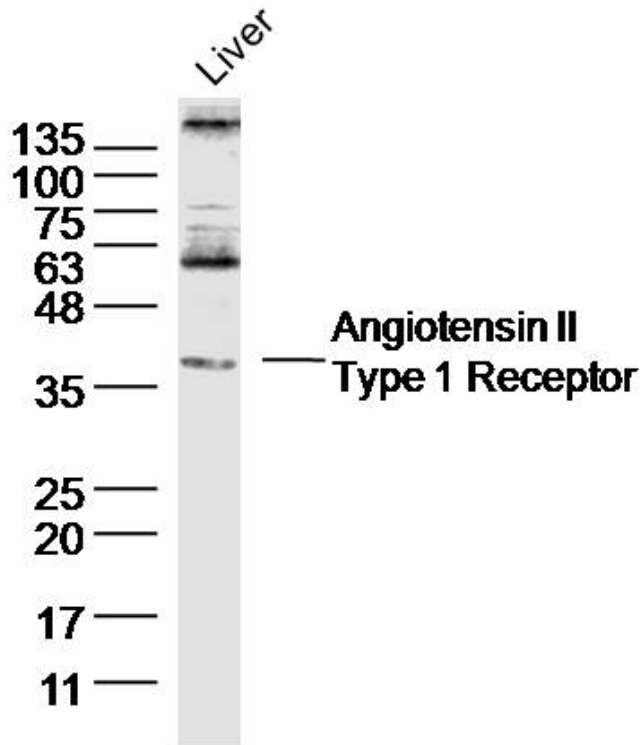
[SwissProt: P29089](#) Rat

[Unigene: 477887](#) Human

[Unigene: 728754](#) Human

AT1-受体：血管紧张素II-1 型受体抗体,主要用于 Cardiovascular 病方面的研究。

Product  
Picture



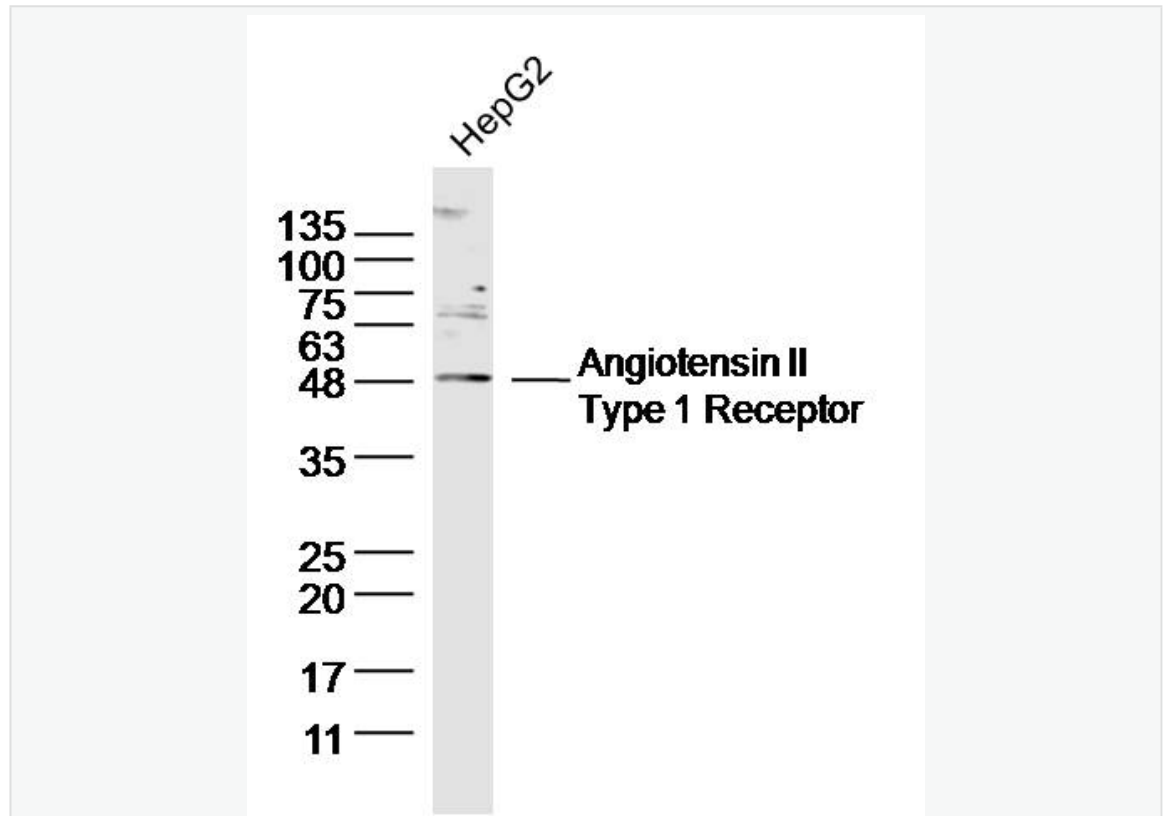
Sample: Liver (mouse) Lysate at 40 ug

Primary: Anti- Angiotensin II Type 1 Receptor (SL0630R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39kD

Observed band size: 36kD



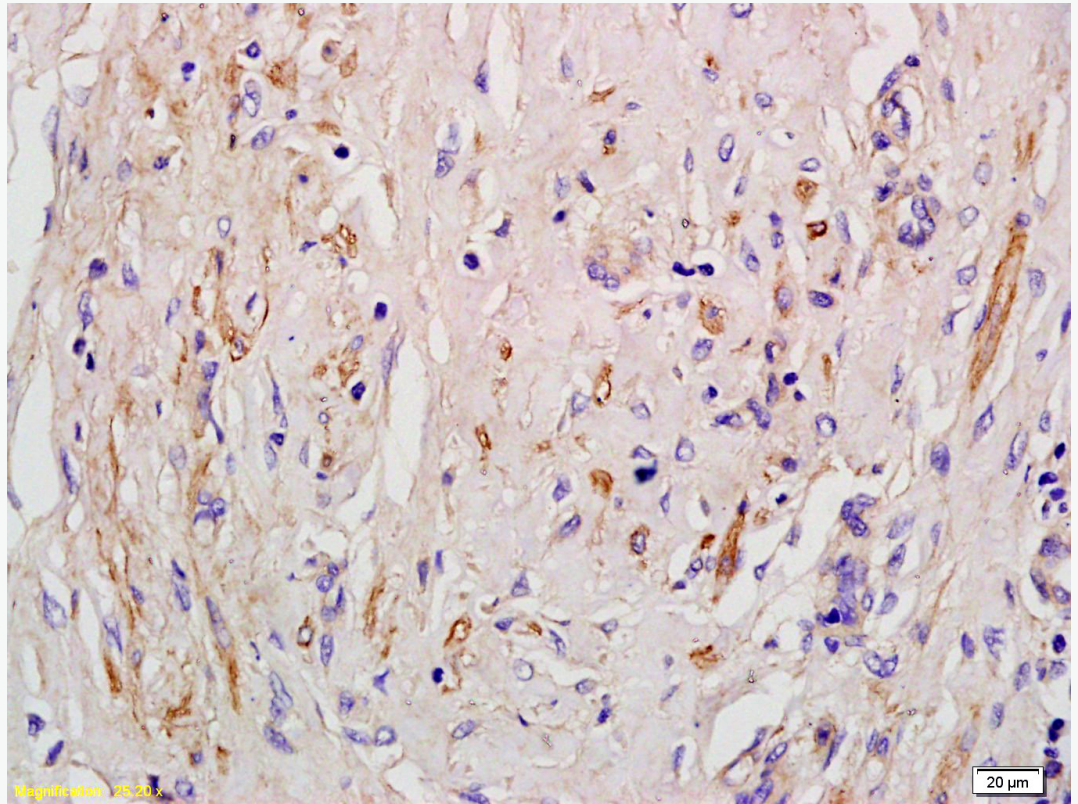
Sample: HepG2 (human)cell Lysate at 40 ug

Primary: Anti- Angiotensin II Type 1 Receptor (SL0630R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39kD

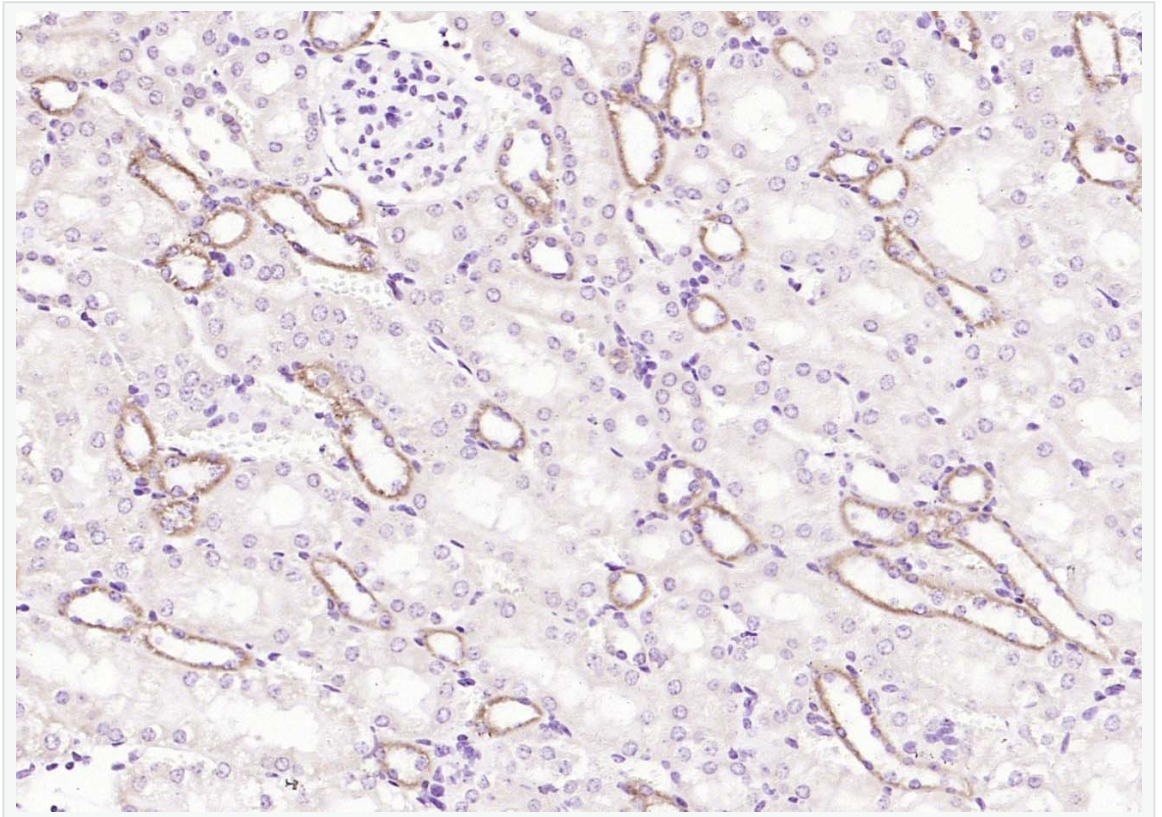
Observed band size: 49kD



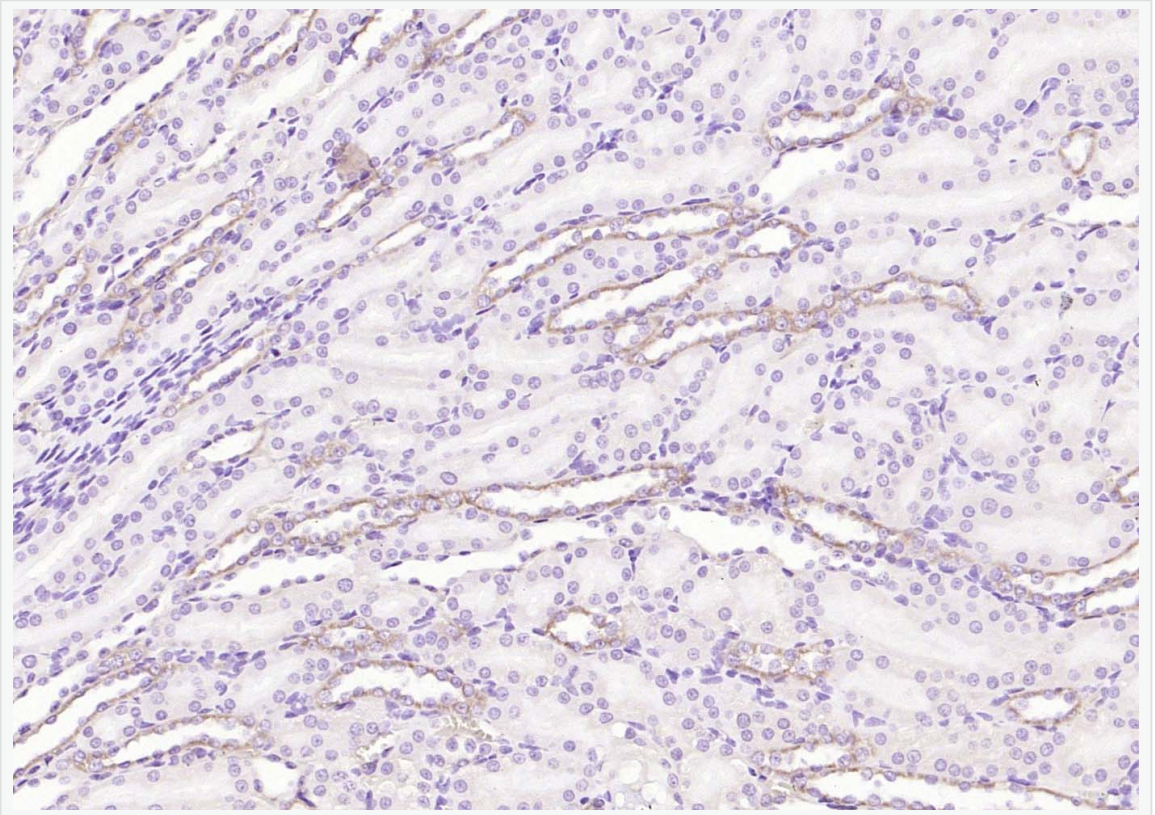
Tissue/cell: human pneumonia tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

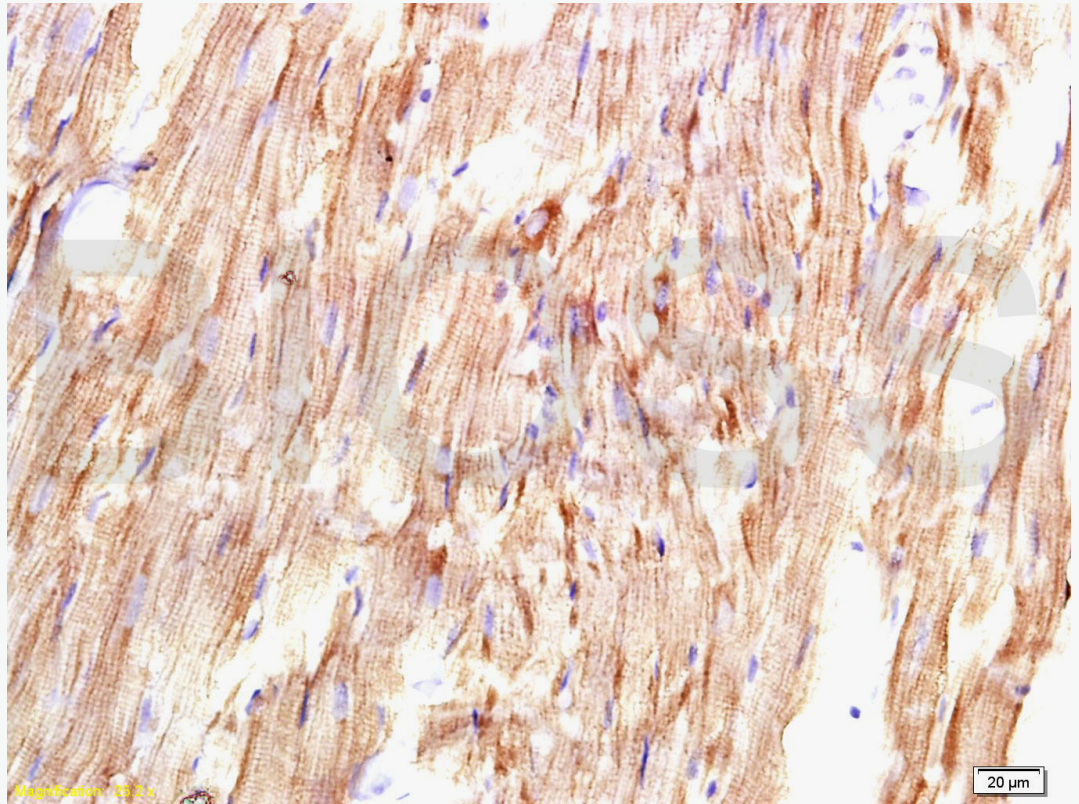
Incubation: Anti-AT1R/AGTR1 Polyclonal Antibody, Unconjugated(SL0630R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Angiotensin II Type 1 Receptor) Polyclonal Antibody, Unconjugated (SL0630R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Angiotensin II Type 1 Receptor) Polyclonal Antibody, Unconjugated (SL0630R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat myocardium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-AT1R/AGTR1 Polyclonal Antibody, Unconjugated(SL0630R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining