

## Product datasheet for **AP23488PU-N**

### Angiotensin II Type 1 Receptor (AGTR1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot:</b> 1 - 2 µg/ml.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide - KLH conjugated, Synthetic peptide
Specificity:	This antibody reacts to the internal region of Angiotensin II Type 1 Receptor (AGTR1).
Formulation:	PBS containing 0.02% sodium azide as preservative State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	angiotensin II receptor type 1
Database Link:	<a href="#">Entrez Gene 185 Human P30556</a>



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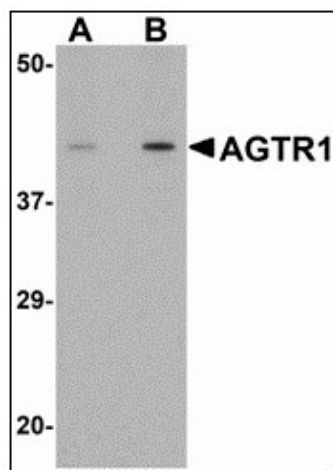
**Background:** Type 1 Angiotensin Receptors (AT1A and AT1B) mediate the major cardiovascular effects of angiotensin II, controlling blood pressure and volume by regulating cell growth, vascular contraction, inflammatory responses, and salt and water retention. Stimulation of AT1 receptors by Ang II activates phospholipase C beta, resulting in increased intracellular calcium and inositol 1, 4, 5-triphosphate concentrations, and activates the mitogen-activated protein kinases, such as extracellular regulated kinases, by way of Src and Ras as well as the JAK/STAT pathways. AT1 knock-out mice have lower blood pressure than wild type mice and lose normal pressor response to exogenous Ang II. AT1B differs from AT1A in its mRNA tissue distribution and in the 5' untranslated region. AT1 blockers have become widely used in the treatment of hypertension and may offer benefits other than blood pressure reduction.

**Synonyms:** AT1AR, AT1BR, AGTR1, AGTR1A, AGTR1B, AT2R1, AT2R1B

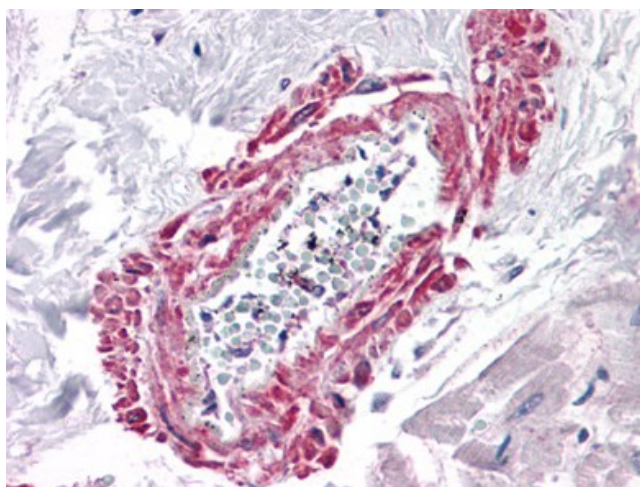
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction, Renin-angiotensin system, Vascular smooth muscle contraction

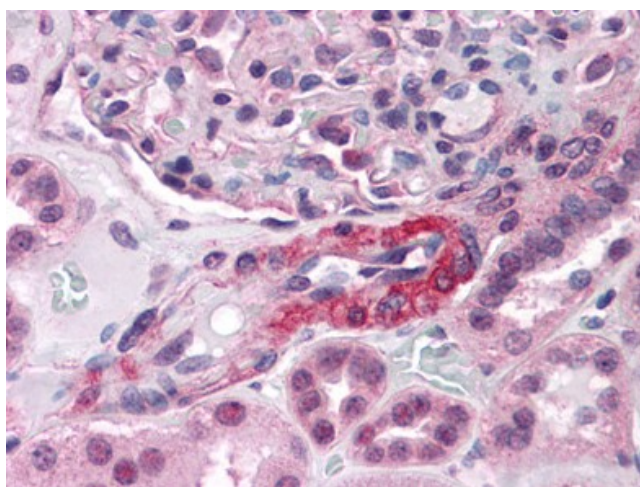
### Product images:



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



Human Heart, Vessel: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney, Vessel: Formalin-Fixed, Paraffin-Embedded (FFPE)