

Datasheet for ABIN2775286

anti-Angiotensin II Type-1 Receptor antibody (N-Term)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µL
Target:	Angiotensin II Type-1 Receptor (AGTR1)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Dog, Rabbit, Guinea Pig, Cow, Sheep, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin II Type-1 Receptor antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human AGTR1
Sequence:	ILNSSTEDGI KRIQDDCPKA GRHNYIFVMI PTLYSIIFVV GIFGNSLVVI
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 92%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against AGTR1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Angiotensin II Type-1 Receptor (AGTR1)
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Target Details

Alternative Name: [AGTR1 \(AGTR1 Products\)](#)

Background: 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. AGTR1 is the type 1 receptor which is thought to mediate the major cardiovascular effects of angiotensin II. AGTR1 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. 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.

Alias Symbols: AG2S, AGTR1A, AGTR1B, AT1, AT1B, AT2R1, AT2R1A, AT2R1B, HAT1R, AT1R

Protein Interaction Partner: PDE6H, GNB2L1, HTR2B, ARRB2, ARRB1, JAK2, TRAF3, MAPK1, AGTRAP, DNAJC14, THOP1, GRK5, GPRASP1, HRAS, RAB5A, PLCG1, RAF1, NOS3, EGFR, BDKRB2, ADRBK2, ADRBK1, AGT, ZBTB16,

Protein Size: 359

Molecular Weight: 41 kDa

Gene ID: 185

NCBI Accession: [NM_004835, NP_004826](#)

UniProt: [P30556](#)

Pathways: [JAK-STAT Signaling](#), [ACE Inhibitor Pathway](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Feeding Behaviour](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 359 AA

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

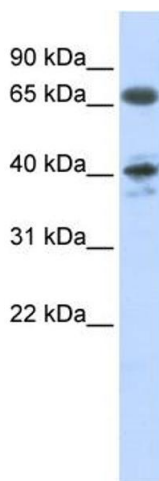
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

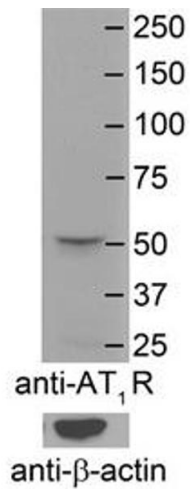
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-AGTR1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Human heart



Western Blotting

Image 2. AGTR1 antibody - N-terminal region validated by WB using Mouse Brain Membranes at 1:4000.