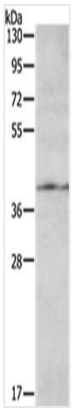
AGTR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AGTR1, Polyclonal Antibody
Full Product Name	AGTR1 Antibody
Product Gene Name	anti-AGTR1 antibody
Product Synonym Names	angiotensin II receptor; type 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	41,061 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (148415658..148460790). Location: 3q24
OMIM	106165
3D Structure	ModBase 3D Structure for P30556
Immunogen	Fusion protein of human AGTR1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-AGTR1 antibody	Cancer
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AGTR1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-AGTR1 antibody	ELISA: 1:1000-1:5000 WB: 1:200-1:1000
Related Product Information for anti-AGTR1 antibody	MBS7123281 is an antibody targeting AGTR1. Also known as AGTR1 Antibody. Reactive in Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-AGTR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-PAGE of anti-AGTR1 antibody
Gel: 10%SDS-PAGE, Lysate: 40 ug, Lane: 231 cells, Primary antibody: MBS7123281(AGTR1 Antibody) at dilution 1/200, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 1 minute

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGTR1. It may not necessarily be applicable to this product.

NCBI GI #	4501997
NCBI GeneID	185
NCBI Accession #	NP_000676.1
UniProt Primary Accession #	P30556
UniProt Secondary Accession #	Q13725
UniProt Related Accession #	P30556
GenBank Nucleotide #	NM_000685.4
NCBI Official Full Name	type-1 angiotensin II receptor isoform 1
NCBI Official Synonym Full Names	angiotensin II receptor, type 1
NCBI Official Symbol	AGTR1
NCBI Official Synonym Symbols	AT1; AG2S; AT1B; AT1R; AT1AR; AT1BR; AT2R1; HAT1R; AGTR1A; AGTR1B; AT2R1A; AT2R1B
UniProt Protein Name	Type-1 angiotensin II receptor
UniProt Synonym Protein Names	AT1AR; AT1BR; Angiotensin II type-1 receptor
Protein Family	Type-1 angiotensin II receptor
UniProt Gene Name	AGTR1
UniProt Synonym Gene Names	AGTR1A; AGTR1B; AT2R1; AT2R1B; AT1
UniProt Entry Name	AGTR1_HUMAN
NCBI Protein Information	type-1 angiotensin II receptor; type-1B angiotensin II receptor
NCBI Summary for AGTR1	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. Multiple alternatively spliced transcript variants have been reported for this gene. [provided by RefSeq, Jul 2012]

UniProt Comments for AGTR1	AT1: receptor for angiotensin II. 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. Mediates the major cardiovascular effects of angiotensin II. May play role in the generation of reperfusion arrhythmias following restoration of blood flow to ischemic or infarcted myocardium. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Protein type: GPCR, family 1; Membrane protein, multi-pass; Membrane protein, integral; Receptor, GPCR Chromosomal Location of Human Ortholog: 3q24 Cellular Component: integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: protein binding; angiotensin type II receptor activity; protein heterodimerization activity; angiotensin type I receptor activity; bradykinin receptor binding Biological Process: elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of vasodilation; positive regulation of cellular protein metabolic process; renin-angiotensin regulation of aldosterone production; calcium-mediated signaling; regulation of systemic arterial blood pressure by renin-angiotensin; Rho protein signal transduction; regulation of cell proliferation; G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; renin-angiotensin regulation of blood vessel size; regulation of vasoconstriction; regulation of inflammatory response; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of cell growth; kidney development; positive regulation of phospholipase A2 activity; positive regulation of inflammatory response; positive regulation of NAD(P)H oxidase activity Disease: Renal Tubular Dysgenesis; Hypertension, Essential
Research Articles on AGTR1	**1.** A novel observation was that resistance to angiotensin receptor blocker binding to opossum AT(1)Rs correlates with variations from the human receptor at positions 108, 163, 192, and 198 within the ARB-binding pocket.
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