

Datasheet for ABIN668616
anti-Angiotensin II Type 2 Receptor antibody[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Angiotensin II Type 2 Receptor (AGTR2)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Angiotensin II Type 2 Receptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse AT2R1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Angiotensin II Type 2 Receptor (AGTR2)
Alternative Name:	AT2R (AGTR2 Products)
Background:	Synonyms: AG2S, Agtr 1, Agtr1, AGTR1_HUMAN, Agtr1a, AGTR1B, Ang II, Angiotensin II receptor type 1, Angiotensin II type 1 receptor, Angiotensin II type-1 receptor, Angiotensin receptor 1, Angiotensin receptor 1B, AT 1B, AT 1r, AT-1B, AT-1r, AT1, At1a, AT1AR, AT1B,

Target Details

AT1BR, AT1R, AT2R1, AT2R1A, AT2R1B, HAT1R, Type 1 angiotensin II receptor, Type 1B angiotensin II receptor, Type-1 angiotensin II receptor.

Background: Angiotensin II (Ang II) is an important physiological effector of blood pressure and volume regulation through vasoconstriction, aldosterone release, sodium uptake and thirst stimulation. Although Ang II interacts with two types of cell surface receptors, AT1 and AT2, most of the major cardiovascular effects seem to be mediated through AT1. Molecular cloning of the AT1 protein has shown it to be a member of the G protein-associated seven transmembrane protein receptor family. Ang II treatment of cells results in activation of several signal transduction pathways as evidenced by tyrosine phosphorylation of several proteins and induction of others. PLC β is phosphorylated after 30 seconds of treatment with Angiotensin II, indicating this as an early signal transduction event. Ang II treatment also stimulates phosphorylation of Shc, FAK and MAP kinases, and induces MKP-1, indicating stimulation of growth factor pathways. Ang II stimulation through AT1 has been shown to activate the JAK/Stat pathway involving a direct interaction between JAK2 and AT1 as demonstrated by coimmunoprecipitation. The AT1 receptor has no cytoplasmic kinase domain, but is able to function as a substrate for Src kinases and has several putative phosphorylation sites.

Molecular Weight: 41kDa

Gene ID: 11607

Pathways: [ACE Inhibitor Pathway](#), [Hormone Transport](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#)

Application Details

Application Notes: WB(1:100-500)
Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 μ g/ μ L

Buffer: Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

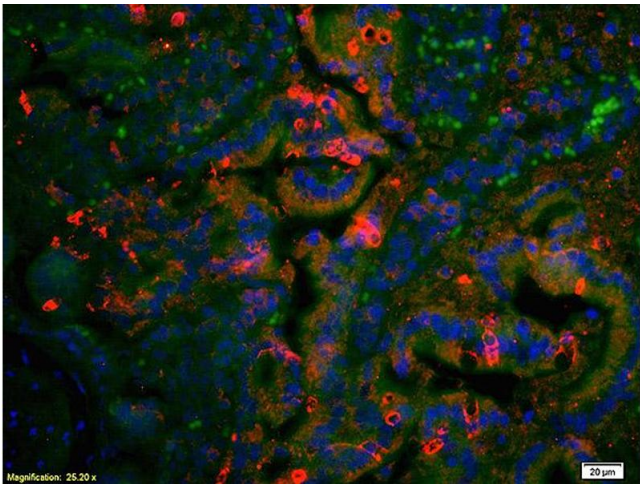
Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Publications

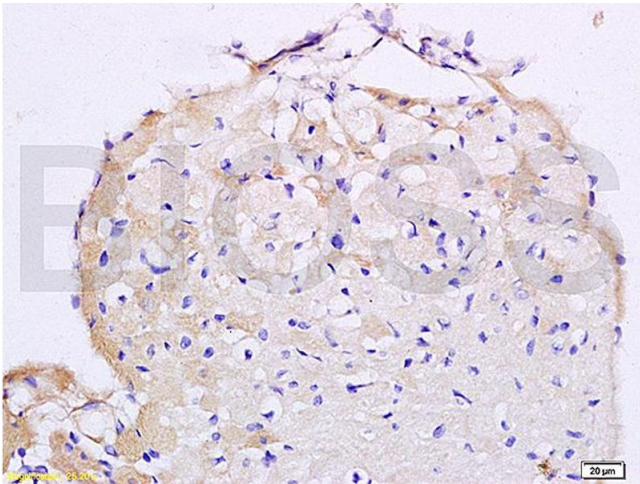
Product cited in:	Yongtao, Kunzheng, Jingjing, Hu, Jianqiang, Ruiyu, Chunsheng: "Glucocorticoids activate the local renin-angiotensin system in bone: possible mechanism for glucocorticoid-induced osteoporosis." in: Endocrine , Vol. 47, Issue 2, pp. 598-608, (2014) (PubMed).
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Images



Immunofluorescence

Image 1. Formalin-fixed and paraffin embedded rat colon tissue labeled with Anti AT2R/AT1 Polyclonal Antibody, Unconjugated (ABIN668616) at 1:200 followed by secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37 °C. and DAPI staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded mouse heart labeled with Anti AT2R/AT1 Polyclonal Antibody, Unconjugated (ABIN668616) at 1:200 followed by conjugation to the secondary antibody and DAB staining.