Angiotensin II receptor AT_1 polyclonal antibody

The actions of the octapeptide circulatory hormone angiotensin II are mediated by type one (AT1) and type two (AT2) angiotensin II receptors, members of the seven-transmembrane domain-containing GPCR family. AT1 expression is greatest in vascular smooth muscle, liver, kidney, adrenal cortex, brain, and lung, and is primarily responsible for the physiological effects of angiotensin II in cardiovascular homeostasis. The AT2 receptor displays approximately 30% identity to the AT1 receptor, and is highly expressed during embryonic development. AT2 expression in adult tissue is limited to the adrenal medulla, brain, and reproductive tissues, but is upregulated in injured tissue following myocardial infarction, vascular injury, and wound healing.

This antibody is covered by our Worry-Free Guarantee.

Citations: 4 View Online »

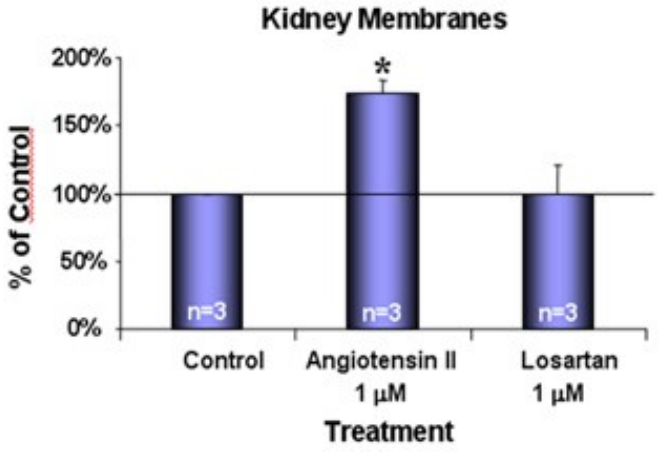
Ordering Information

Order Online »

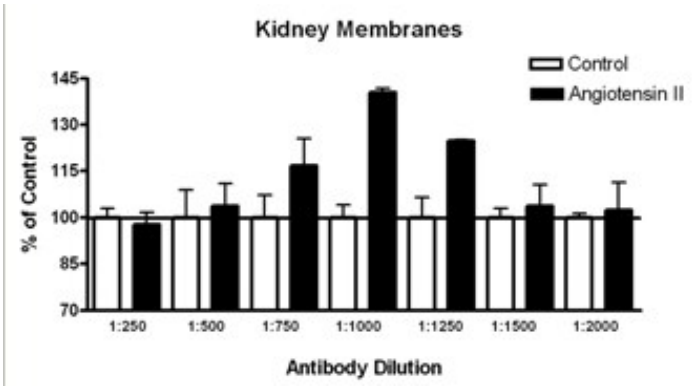
ADI-905-743-100	100µg

Manuals, SDS & CofA

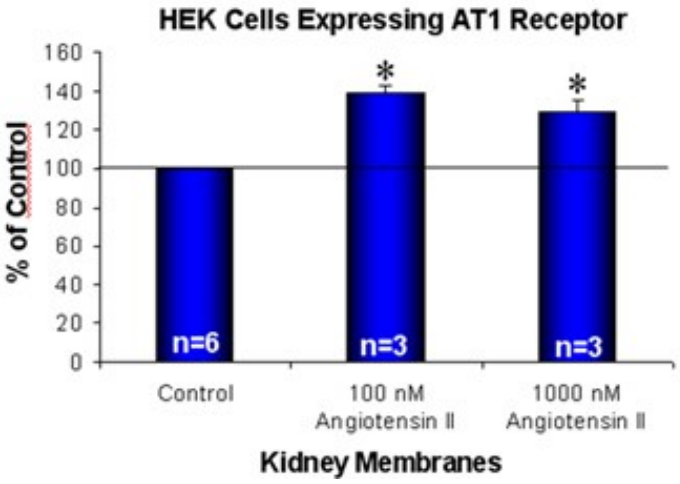
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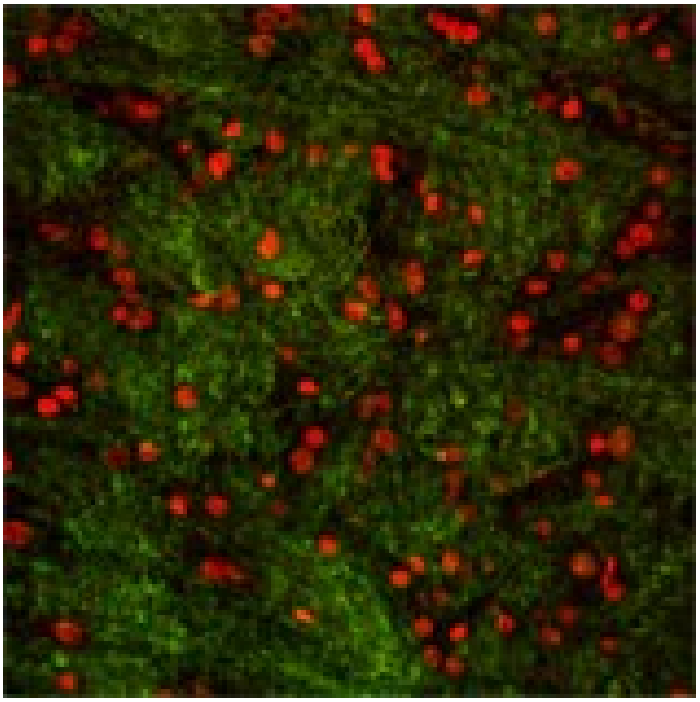
Membrane ELISA: Lewis rat kidney membranes (5µg/well) were treated with indicated concentrations of agonist (Angiotensin II) and antagonist (Losartan) and probed with Angiotensin II Receptor (AT1) pAb (1:1000 of a stock solution of 1µg/µL) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=3).



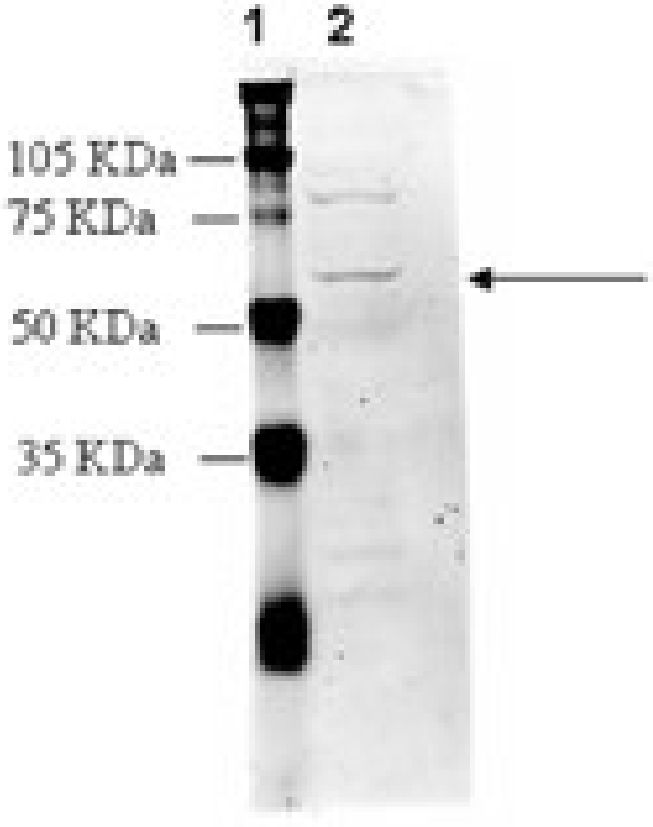
Membrane ELISA: Lewis rat kidney membranes (5 µg/well) were treated with 1 µM concentrations of agonist (Angiotensin II) and probed with Angiotensin II Receptor (AT1) pAb (1:250 to 1:2000 of a 1 µg/µL stock solution) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=2).



Cellular ELISA: HEK293 cells expressing AT1 Receptor were treated with indicated concentrations of agonist (Angiotensin II) and probed with Angiotensin II Receptor (AT1) pAb (1:1000 of a stock solution of 1µg/µL) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=3).



Immunohistochemistry analysis: Rat brain nucleus tractis solitarus fixed with 100% methanol and stained with propidium iodide (red) and Angiotensin II Receptor (AT1) pAb at 1:1000 (green).



Western blot analysis: MW marker (1) and 20µg of kidney membrane extract (2) probed with Angiotensin II Receptor (AT1) pAb at 3 µg/ml.

Handling & Storage

Handling	Keep on ice at all times.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	AGTR1
Application	ELISA, IHC, WB
Application Notes	Suitable for cell-based and membrane-based ELISA. Predicted MW of ~41kDa. Higher MW species (~55kDa) and intermediates also observed by Western blot which reflect post-translational modification and dimerization of the receptor.
Crossreactivity	Predicted species reactivity based on epitope sequence homology: chimpanzee, bovine, rhesus macaque, sheep, dog, guinea pig, rabbit, horse, wild boar, gerbil.
Formulation	Liquid. In PBS containing 50% glycerol and 0.01% sodium azide.
Host	Rabbit
Immunogen	Synthetic peptide corresponding to the sequence near the N-terminus of rat angiotensin II receptor AT1.
Purity Detail	Peptide affinity purified.
Species Reactivity	Human, Mouse, Rat
UniProt ID	P25095 (AT1A), P29089 (AT1B)
Worry-free Guarantee	**This antibody is covered by our Worry-Free Guarantee .**

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