

# Product Datasheet

## AGTR-1 Antibody - BSA Free

### NBP1-77078

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-77078**

AGTR-1 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	41 kDa

**Product Description**

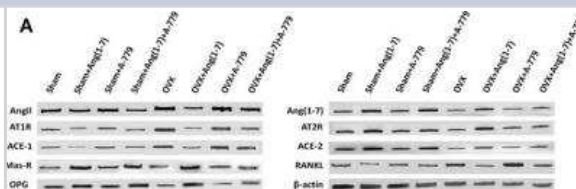
<b>Host</b>	Rabbit
<b>Gene ID</b>	185
<b>Gene Symbol</b>	AGTR1
<b>Species</b>	Human, Mouse, Rat, Rabbit
<b>Reactivity Notes</b>	Use in Rabbit reported in scientific literature (PMID:35372645). Immunogen displays the following percentage of sequence identity for non-tested species: Chicken (81%).
<b>Immunogen</b>	Antibody was raised against a 16 amino acid synthetic peptide from near the center of human AGTR1. The immunogen is located within amino acids 210 - 260 of AGTR1. Amino Acid Sequence: KKAYEIQKNKPRNDDI

**Product Application Details**

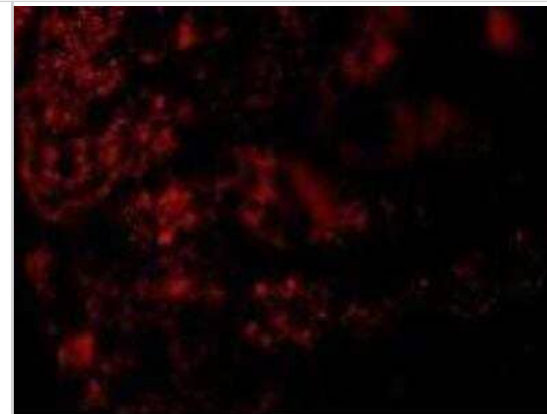
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, ELISA, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 20 ug/mL, Immunohistochemistry-Paraffin 2.5 ug/ml

**Images**

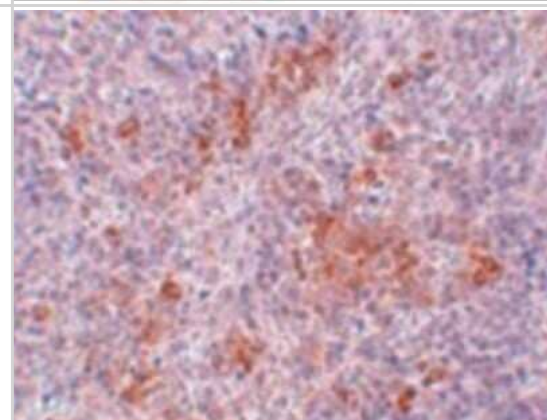
Western Blot: AGTR-1 Antibody [NBP1-77078] - Effects of Ang(1-7) and/or A-779 treatments to the sham and OVX animals for 6 weeks on the expressions of RAS different proteins and osteoclastogenesis modulating factors in the femoral bone heads. Western blot analysis bands showing the expressions of AngII, Ang(1-7), AT1R, AT2R, ACE, ACE-2, MasR, RANKL and OPG. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-017-02570-x>) licensed under a CC-BY license.



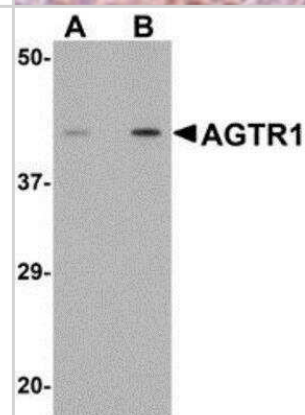
Immunocytochemistry/Immunofluorescence: AGTR-1 Antibody [NBP1-77078] - Mouse Kidney cells at 20 ug/ml.



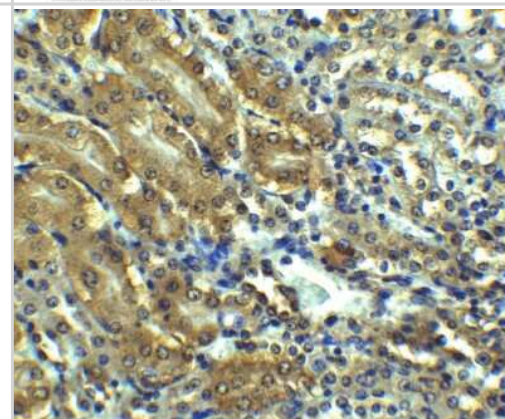
Immunohistochemistry-Paraffin: AGTR-1 Antibody [NBP1-77078] - Mouse kidney tissue at 2.5 ug/mL.



Western Blot: AGTR-1 Antibody [NBP1-77078] - Mouse kidney tissue lysate with Angiotensin II Type 1 Receptor antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry-Paraffin: AGTR-1 Antibody [NBP1-77078] - Staining of mouse kidney tissue with antibody at 2.5 ug/ml.



## Publications

- Abuhashish HM, Ahmed MM, Sabry D et al. Angiotensin (1-7) ameliorates the structural and biochemical alterations of ovariectomy-induced osteoporosis in rats via activation of ACE-2/Mas receptor axis. *Sci Rep* 2017-05-23 [PMID: 28536469]
- Deng Z, Gao X, Utsunomiya H et al. Effects of oral losartan administration on homeostasis of articular cartilage and bone in a rabbit model *Bone Reports* 2022-06-01 [PMID: 35372645] (IF/IHC, Rabbit)
- Saez T, Spaans F, Kirschenman R et al. High-cholesterol diet during pregnancy induces maternal vascular dysfunction in mice: potential role for oxidized LDL-induced LOX-1 and AT1 receptor activation *Clin. Sci.* 2020-09-18 [PMID: 32856035]
- Zhang XB, Cai JH, Yang YY et al. Telmisartan attenuates kidney apoptosis and autophagy-related protein expression levels in an intermittent hypoxia mouse model. *Sleep Breath* 2018-09-15 [PMID: 30219962] (WB, Mouse)
- Jang IA, Kim EN, Lim JH et al. Effects of Resveratrol on the Renin-Angiotensin System in the Aging Kidney. *Biochem. Pharmacol.* 2018-11-16 [PMID: 30424556]
- Abuhashish HM, Ahmed MM, Sabry D et al. ACE-2/Ang1-7/Mas cascade mediates ACE inhibitor, captopril, protective effects in estrogen-deficient osteoporotic rats. *Biomed. Pharmacother.* 2017-05-19 [PMID: 28531801]
- Baker DJ, Childs BG, Durik M et al. Naturally occurring p16(Ink4a)-positive cells shorten healthy lifespan *Nature* 2016-02-11 [PMID: 26840489] (IHC-P, Mouse)
- Tsubakimoto Y, Yamada H, Yokoi H et al. Bone marrow angiotensin AT1 receptor regulates differentiation of monocyte lineage progenitors from hematopoietic stem cells. *Arterioscler. Thromb. Vasc. Biol.* 29:1529-36. 2009-01-01 [PMID: 19628784]
- Mottl AK, Shoham DA, North KE. Angiotensin II type 1 receptor polymorphisms and susceptibility to hypertension: A HuGE review. *Gen. in Med.* 10:560-574. 2008-01-01 [PMID: 18641512]
- Miyazaki Y Ichikawa I. Role of the angiotensin receptor in the development of the mammalian kidney and urinary tract. *Comp. Biochem. Physiol. A Mol. Integr. Physiol.* 128:89-97. 2001-01-01 [PMID: 11137441]





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### **Products Related to NBP1-77078**

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NBP1-77078PEP	AGTR-1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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