Product Datasheet

AGTR-1 Antibody
NB100-57073

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Reviews: 1 Publications: 2

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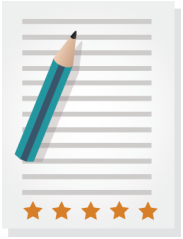
Updated 10/23/2024 v.20.1



NB100-57073

AGTR-1 Antibody

Product Information

Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	41 kDa

Product Description

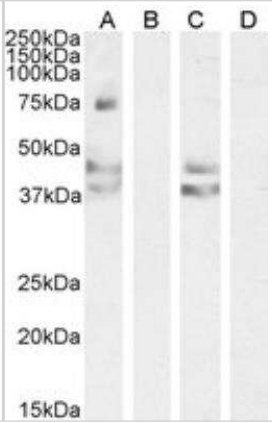
Host	Goat
Gene ID	185
Gene Symbol	AGTR1
Species	Human, Mouse
Specificity/Sensitivity	All reported variants represent identical protein (NP_000676.1, NP_004826.2, NP_033611.1, NP_114038.1 and NP_114438.1).
Immunogen	Peptide with sequence C-EIQKNKPRNDDIFK corresponding to internal region according to NP_004826.2, NP_033611.1, NP_114038.1, NP_114438.1.

Product Application Details

Applications	Western Blot, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/mL, Immunohistochemistry, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Approx 38 kDa band observed in Human and Mouse Liver lysates (calculated MW of 41.1 kDa according to Human NP_000676.1 and 40.9 kDa according to Mouse NP_796296.1) Additional bands of unknown identity were also observed at 45 and 75 kDa and were successfully blocked by incubation with the immunizing peptide. Use in Immunohistochemistry reported in scientific literature (PMID: 23335130).

Images

Western Blot: AGTR-1 Antibody [NB100-57073] - Staining of Human Liver (A) + peptide (B), Mouse Liver (C) + peptide (D) lysate (35 ug protein in RIPA buffer). Antibody at 0.2 ug/mL. Detected by chemiluminescence.



Publications

Wang M, Jiang C, Wang C, Yao Q. The Role of brain angiotensinergic AT(1) receptor in the carbachol-induced natriuresis and expression of nNOS in the Locus Coeruleus (LC) and proximal convoluted tubule (PCT). Physiol Res 2006-08-22 [PMID: 16925472]

Marut W, Kavian N, Servettaz A et al. Amelioration of Systemic Fibrosis in Mice by Angiotensin II Receptor Blockade. Arthritis Rheum 2013-05-01 [PMID: 23335130] (IF/IHC, Mouse)

Procedures

Protocol specific for Angiotensin II Type 1 Receptor Antibody (NB100-57073)
Nuclear Extract and Cytoplasmic Fraction Preparation protocol for Angiotensin II Type 1 Receptor Antibody (NB100-57073):
TISSUE LYSIS:

Tissue chunks were weighed and cut into approx 1mm cubes using a razor blade. The tissue was transferred to a handheld homogenizer and 3 ml of ice-cold RIPA buffer was added per 1g of tissue. The tissue was gently homogenised over 20 minutes on ice. The resulting lysate was aliquotted into 1.5 ml microfuge tubes and centrifuged at 13,000 rpm for 5 min in a microfuge. The supernatant was transferred into clean tubes and its protein concentration was measured with BioRad protein assay. The concentration was then adjusted to 5 mg/ml with RIPA lysis buffer. An equal volume of 2 x SDS sample buffer was added and the cell lysate was boiled for 5 minutes. Lysates were stored at -80C until use.(RIPA buffer = 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1 mM PMSF, 1 mM EDTA, 5 ug/ml Aprotinin, 5 ug/ml Leupeptin, 1% Triton X-100, 1% Sodium deoxycholate, 0.1% SDS).

SDS PAGE:

Samples were run at 200V constant on a 12% acrylamide SDS-PAGE mini gel - using Biorad Mini-Protean 3 kit and protocols. Before loading samples had 5% (v/v) 2-ME added and were boiled for 3 minutes.

TRANSFER:

We used a Biorad Mini Trans-Blot, constant 100 V for 1 hour. Transfer Buffer was 20 mM Tris pH 8.0, 150 mM Glycine, 10% Methanol. We transferred to Millipore PVDF membrane and stained with Ponceau Red to evaluate the transfer.

STAINING:

The membrane was blocked in 2.5% skimmed milk in TBS-T (TBS + 0.05% Tween-20) for 1 hr at room temperature with agitation. Primary antibody was incubated for 1 hr at room temperature with agitation. We used sigma secondary (Sigma anti-goat-HRP Product # A4174, use 1:3,000) for 1 hr at room temperature with agitation. We washed with TBST three times after primary and secondary antibody, each wash lasting for 5-10 mins. ECL-plus (Amersham) was used rather than ECL, which is considerably more sensitive. Final detection was on autoradiography film.

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Products Related to NB100-57073

NB820-59662	Mouse Liver Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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