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Datasheet for 600-401-X82

AGTR2 Antibody

Overview

Description:	Anti-AGTR2 (RABBIT) Antibody - 600-401-X82
Item No.:	600-401-X82
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Angiotensin II is a potent vasopressor hormone and a primary regulator of aldosterone secretion that acts through at least two types of receptors, AGTR1 and AGTR2. It is an important effector controlling blood pressure and volume in the cardiovascular system and plays a major role in the development of the mammalian kidney and urinary tract. Like AGTR1, AGTR2 is a seven transmembrane G protein-coupled receptor (GPCR), but AGTR2 does not demonstrate most of the classic features of GPCR signaling. AGTR2 is involved in a wide range of activities, including the induction of neurite outgrowth and the inhibition of cellular proliferation, in addition to the known function of mediation of vasoconstriction.
Synonyms:	AGTR2 Antibody, AT2, ATGR2, MRX88, Type-2 angiotensin II receptor, Angiotensin II type-2 receptor, AT2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	AGTR2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-AGTR2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the internal region of human AGTR2.
Purity/Specificity:	Anti-AGTR2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with AGTR2 from other sources has not been determined.
Relevant Links:	• UniProtKB - P50052 • GeneID - 186 • NCBI - AAS45437

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-AGTR2 Antibody has been tested for use in ELISA, Western Blotting, immunofluorescence, Immunocytochemistry, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 36 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000
IF:	1 µg/mL
IHC:	5 µg/mL
WB:	0.5 µg/mL

Formulation

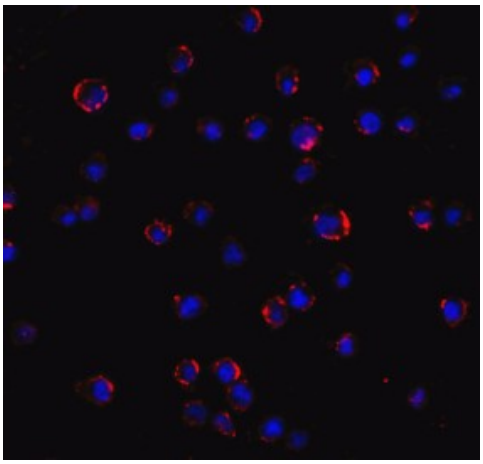
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

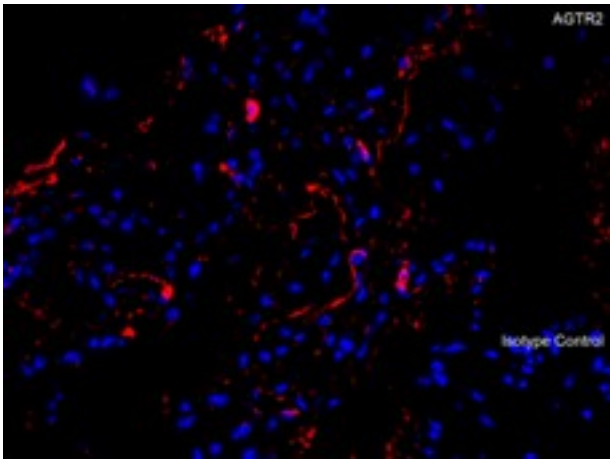
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

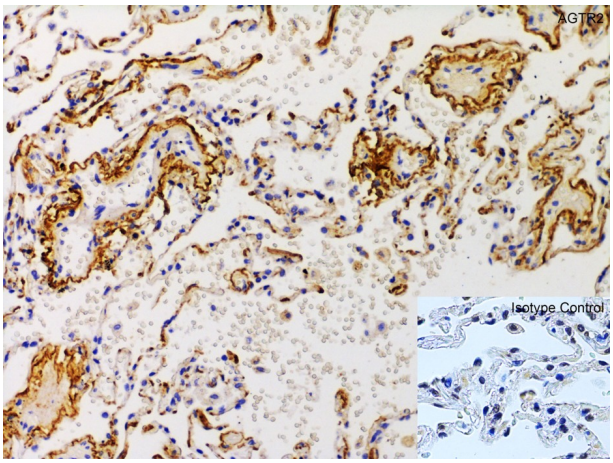
Images



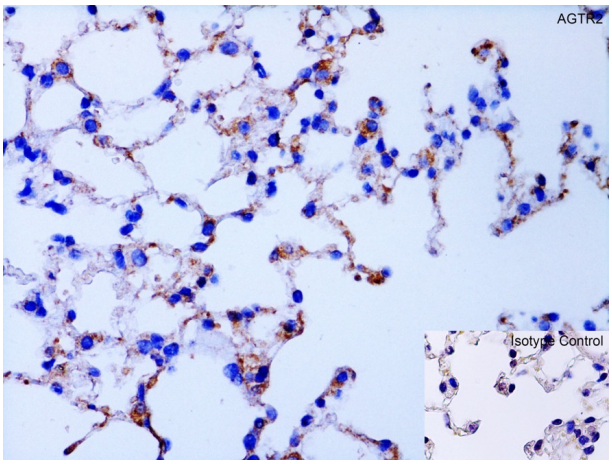
Immunofluorescence Microscopy
Immunofluorescence Validation of AGTR2.
Immunofluorescent analysis of 4% paraformaldehyde-fixed Jurkat Cells labeling AGTR2 with at 5 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



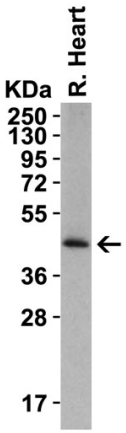
Immunofluorescence Microscopy
Immunofluorescence Validation of AGTR2.
Immunofluorescent analysis of 4% paraformaldehyde-fixed rat lung tissue labeling AGTR2 with at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



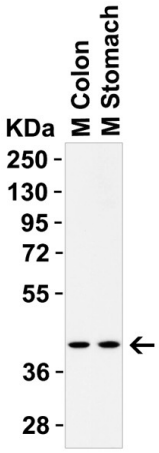
Immunohistochemistry
Immunohistochemistry Validation of AGTR2.
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-AGTR2 antibody at 1 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



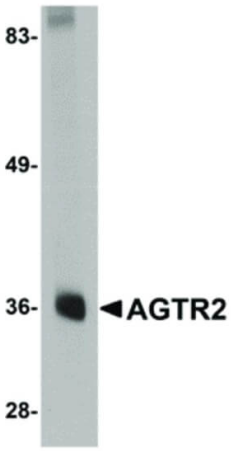
Immunohistochemistry
Immunohistochemistry Validation of AGTR2.
Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-AGTR2 antibody at 1 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



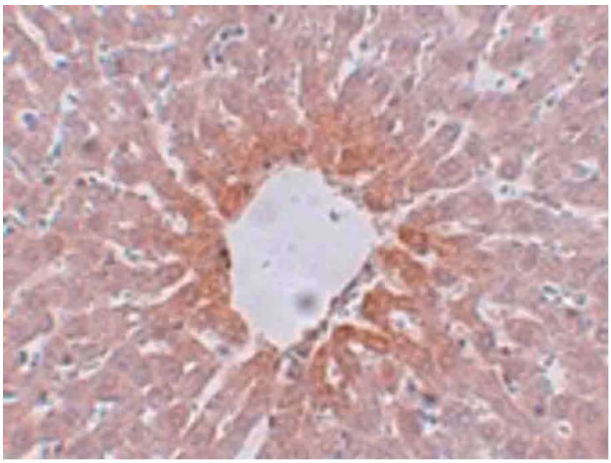
Western Blot
Western Blot using AGTR2. Loading: 15 µg of Rat heart lysate. Antibodies: AGTR2, 2 µg/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot using AGTR2. Loading: 10 µg of mouse tissue lysate. Antibodies: AGTR2, 2 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of AGTR2 antibody. Lane 1: mouse kidney tissue lysate with AGTR2 antibody at 0.5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 36 kDa, 36 kDa for AGTR2. Other band(s): AGTR2. splice variants and isoforms.



Immunohistochemistry
Immunohistochemistry of AGTR2 antibody. Tissue: rat liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: AGTR2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: AGTR2 is a multi-pass membrane protein. Staining: AGTR2 as precipitated brown signal with purple nuclear counterstain.

Disclaimer

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