BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-Type-2 angiotensin II receptor AGTR2 Antibody

Catalog Number: A00432-1

About AGTR2

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.

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Overview

Product Name	Anti-Type-2 angiotensin II receptor AGTR2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Type-2 angiotensin II receptor AGTR2 Antibody (Catalog # A00432-1). Tested in ELISA, WB, IHC-P, ICC/IF, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, ICC, WB
Clonality	Polyclonal
Formulation	AGTR2 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	AGTR2 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P50052

Technical Details

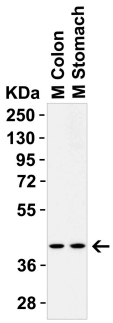
Immunogen	AGTR2 antibody was raised against a 16 amino acid synthetic peptide from near the center of human AGTR2. The immunogen is located within amino acids 220 - 270 of AGTR2.
Predicted Reactive Species	Sheep
Isotype	IgG

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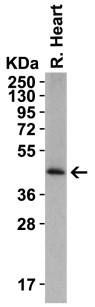
Form	Liquid
Concentration	1 mg/mL
Purification	AGTR2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-4 ug/mL; IHC-P: 1-4 ug/mL; IHC-P/IF: 10-20 ug/mL; ICC/IF: 5-20 ug/mL. Antibody validated: Western Blot in mouse and rat samples; Immunohistochemistry in human and mouse samples; Immunofluorescence in human and rat samples. All other applications and species not yet tested.

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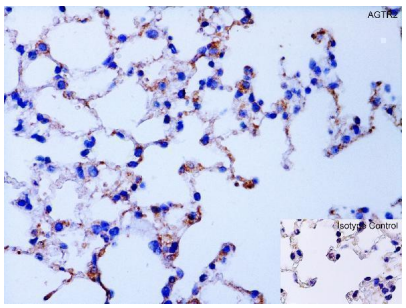
Anti-Type-2 angiotensin II receptor AGTR2 Antibody (A00432-1) Images



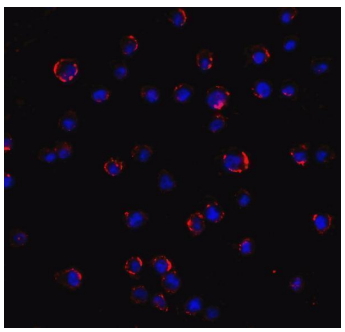
WB Validation in Mouse Tissues Loading: 10 ug of lysate Antibodies: AGTR2, A00432-1, 2 u g/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



WB Validation in Rat Heart Loading: 15 ug of lysate Antibodies: AGTR2, A00432-1, 2 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



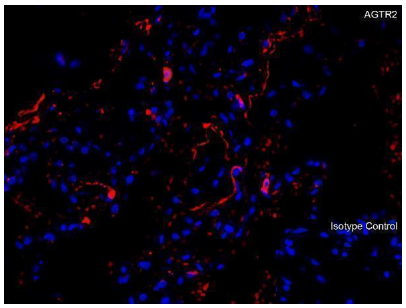
Immunohistochemistry Validation of AGTR2 in Human Lung Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-AGTR2 antibody (A00432-1) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate 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.



Immunofluorescence Validation of AGTR2 in Jurkat Cells/strong> Immunofluorescent analysis of 4% paraformaldehyde-fixed Jurkat Cells labeling AGTR2 with A00432-1 at 5 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

Immunohistochemistry Validation of AGTR2 in Mouse Lung Immunohistochemical analysis of paraffin-embedded mouse lung tissue using anti-AGTR2 antibody (A00432-1) at 1 ug/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.

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Counter stained with Hematoxylin.

Anti-Type-2 angiotensin II receptor AGTR2 Antibody

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