

## Anti-Angiotensin II Receptor AT2 Agtr2 Antibody

Catalog Number: A00432

### Introduction

The antibody is directed against Thy-1 present in human brain, with small amounts in kidney. The 23.5kD a Thy-1 antigen is absent from human thymocytes and peripheral lymphocytes. Thymus, lymph node and spleen have small populations of F15-42-1-5 positive cells.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

### Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is  $\leq 0.5\mu\text{g}$  per  $1 \times 10^6$  cells in  $100\mu\text{l}$  of staining volume. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

### Overview

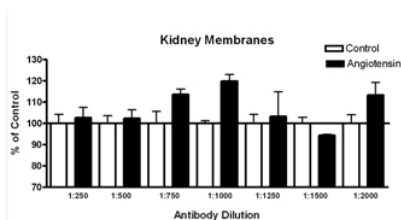
Product Name	Anti-Angiotensin II Receptor AT2 Agtr2 Antibody
Reactive Species	Rat
Description	Boster Bio Anti-Angiotensin II Receptor AT2 Agtr2 Antibody (Catalog# A00432). Tested in ELISA, IHC, WB application(s). This antibody reacts with Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal CFA-18
Formulation	Liquid. In PBS containing 50% glycerol and 0.01% sodium azide.
Storage Instructions	Store at $-20^{\circ}\text{C}$ for long-term storage. Keep on ice at all times.
Host	Rabbit
Uniprot ID	P35351

### Technical Details

Immunogen	Synthetic peptide corresponding to the sequence near the N-terminus of rat angiotensin II receptor AT <sub>2</sub>
Predicted Reactive Species	Bovine, Chicken, Xenopus Laevis, Xenopus Tropicalis, Zebrafish
Cross Reactivity	Predicted species reactivity based on epitope sequence homology: mouse, gerbil.
Isotype	Rabbit IgG

Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Peptide affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Suitable for membrane-based ELISA.</p> <p>Predicted MW of ~41kDa. Higher MW species (~50kDa) also observed by Western blot which may reflect dimerization of the receptor.</p> <p>Optimal conditions must be determined individually for each application.</p>

## Anti-Angiotensin II Receptor AT2 Agtr2 Antibody (A00432) Images



Membrane ELISA: Lewis rat kidney membranes (5µg/well) were treated with 1uM concentrations of agonist (Angiotensin II) and probed with Angiotensin II Receptor (AT2) pAb (1:250 to 1:2000 of a 1µg/uL stock solution) by ELISA. Data from vehicle treated cells were taken as 100%. Results are the mean ± SEM (n=2).

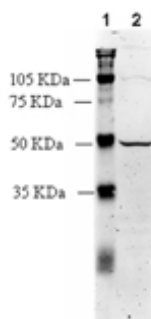


Figure 1. Western blot analysis of Agtr2 using anti-Agtr2 antibody (A00432).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Agtr2 antigen affinity purified polyclonal antibody (Catalog # A00432) at 0.5 ug/mL overnight at 4

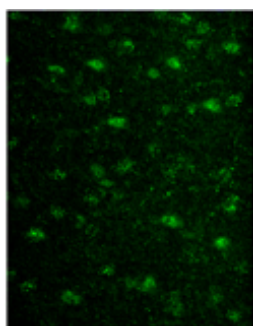


Figure 2. IHC analysis of Agtr2 using anti-Agtr2 antibody (A00432).

Agtr2 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Agtr2 Antibody (A00432) overnight at 4

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