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antibody and ELISA experts

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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 ≤ 0.5µg per 1x106 cells in 100µl 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°C for long-term storage. Keep on ice at all times.
Host	Rabbit
Uniprot ID	P35351

Technical Details

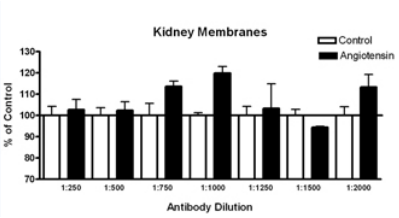
Immunogen	Synthetic peptide corresponding to the sequence near the N-terminus of rat angiotensin II receptor AT_2
Predicted Reactive Species	Bovine, Chicken, Xenopus Laevis, Xenopus Tropicalis, Zebrafish
Cross Reactivity	Predicted species reactivity based on epitope sequence homology: mouse, gerbil.
Isotype	Rabbit IgG

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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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Suitable for membrane-based ELISA. Predicted MW of ~41kDa. Higher MW species (~50kDa) also observed by Western blot which may reflect dimerization of the receptor. Optimal conditions must be determined individually for each application.

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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).

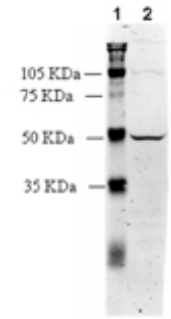


Figure 1. Western blot analysis of Agtr2 using anti-Agtr2 antibody (A00432).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins 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

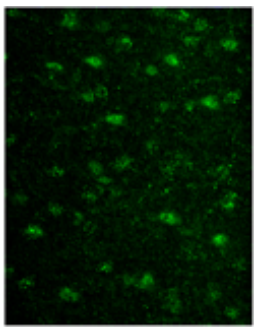


Figure 2. IHC analysis of Agtr2 using anti-Agtr2 antibody (A00432).
Agtr2 was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Agtr2 Antibody (A00432) overnight at 4

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