

For Research Use Only

# AGTR1 Monoclonal antibody

Catalog Number: 66415-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66415-1-Ig	<b>GenBank Accession Number:</b> BC022447	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 185	<b>CloneNo.:</b> 2C5G11
<b>Source:</b> Mouse	<b>Full Name:</b> angiotensin II receptor, type 1	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 359 aa, 41 kDa	
<b>Immunogen Catalog Number:</b> AG14461	<b>Observed MW:</b> 50 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : pig heart tissue, pig skeletal muscle tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, rat, pig, mouse	
<b>Cited Species:</b> mouse	

## Background Information

Angiotensin II (Ang II), the main effector molecule of the renin-angiotensin system, exerts its actions mainly via interaction with type-1 angiotensin II receptor (AGTR1, also named as AT1R), thereby contributing to blood pressure regulation. AGTR1 mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. By regulating vascular tone, cardiovascular function, salt and water homeostasis, AGTR1 exerts an indispensable physiological role (PMID: 21600887). AGTR1 has been implicated in diverse aspects of human disease, from the regulation of blood pressure and cardiovascular homeostasis to cancer progression (PMID: 26975580).

## Notable Publications

Author	Pubmed ID	Journal	Application
Han Su	34603779	J Adv Res	WB

## Storage

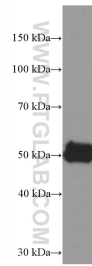
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



pig heart tissue were subjected to SDS PAGE followed by western blot with 66415-1-Ig (AGTR1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.