

For Research Use Only

AGTR1 Polyclonal antibody

Catalog Number: 25343-1-AP

Featured Product

48 Publications



Basic Information

Catalog Number:

25343-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 313 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14461

GenBank Accession Number:

BC022447

GeneID (NCBI):

185

Full Name:

angiotensin II receptor, type 1

Calculated MW:

359 aa, 41 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

CoIP, IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, zebrafish

Positive Controls:

WB: C2C12 cells, PC-12 cells, mouse kidney tissue, mouse heart tissue, HuH-7 cells, HEK-293 cells

IHC: mouse heart tissue, human liver cancer tissue, human heart tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 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, and 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
Zemin Zhu	36175845	BMC Mol Cell Biol	WB
Gha-Hyun J Kim	34550070	Elife	WB,IF
Ruili Dang	34529881	Aging Cell	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

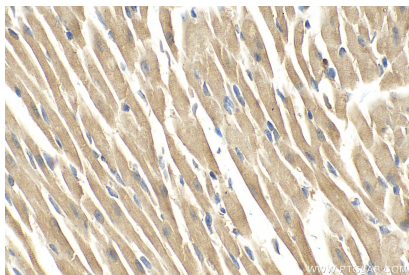
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

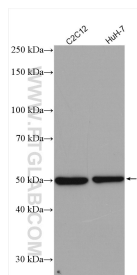
E: proteintech@ptglab.com
W: ptglab.com

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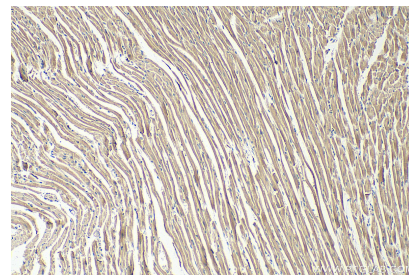
Selected Validation Data



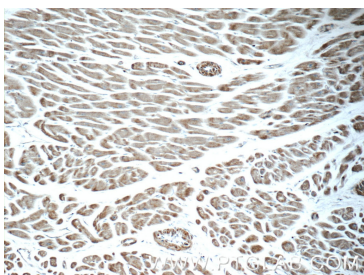
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25343-1-AP (AGTR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 25343-1-AP (AGTR1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25343-1-AP (AGTR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 25343-1-AP (AGTR1 Antibody) at dilution of 1:50 (under 10x lens).