For Research Use Only

Angiotensinogen/AGT Polyclonal antibody

Catalog Number:11992-1-AP Featured Product 29 Publications

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Basic Information

Catalog Number:
11992-1-AP

Concentration:
430 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2632

GenBank Accession Number:
BC011519

GeneID (NCBI):
183

UNIPROT ID:
P01019

Full Name:
angiotensinogen (serpin peptidase inhibitor, clade A, member 8)

Calculated MW:
485 aa, 53 kDa

Observed MW:
53 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:50-1:500
IF/ICC: 1:50-1:500
FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human

Cited Species:
human, mouse, rat

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

Positive Controls:

WB : HuH-7 cells, HepG2 cells, human plasma

IP : human plasma,

IHC : human liver tissue,

IF/ICC : HeLa cells,

FC (Intra) : HepG2 cells,

Background Information

Angiotensinogen is a precursor of angiotensin II (Ang II), is expressed and synthesized largely in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. It has a key role in mediating vascular constriction and regulating salt and fluid homeostasis. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. Mutations in this gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in this gene also have been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease.

Notable Publications

Author	Pubmed ID	Journal	Application
Noriatsu Shigemura	31546789	Nutrients	IHC
Wei Chen	34655849	Int Immunopharmacol	WB,IHC
Dong Yi-Fei YF	21859961	Hypertension	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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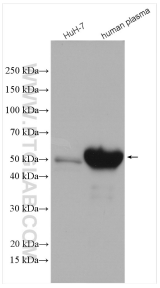
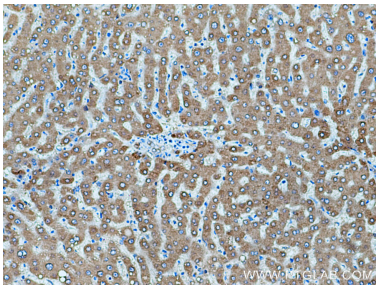
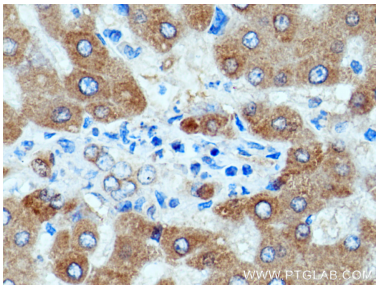
Selected Validation Data



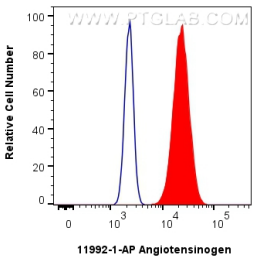
Various lysates were subjected to SDS PAGE followed by western blot with 11992-1-AP (Angiotensinogen antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



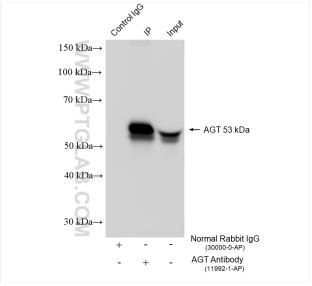
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 11992-1-AP (Angiotensinogen antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



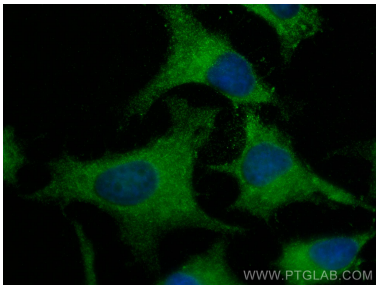
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 11992-1-AP (Angiotensinogen antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug Angiotensinogen Polyclonal antibody (11992-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-Angiotensinogen (IP:11992-1-AP, 4ug; Detection:11992-1-AP 1:1000) with human plasma lysate 1600 ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Angiotensinogen antibody (11992-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).