

AGT Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7854a**Specification**

AGT Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P01019
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52070
Antigen Region	37-65

AGT Antibody (N-term) - Additional Information**Gene ID** 183**Other Names**

Angiotensinogen, Serpin A8, Angiotensin-1, Angiotensin 1-10, Angiotensin I, Ang I, Angiotensin-2, Angiotensin 1-8, Angiotensin II, Ang II, Angiotensin-3, Angiotensin 2-8, Angiotensin III, Ang III, Des-Asp[1]-angiotensin II, Angiotensin-4, Angiotensin 3-8, Angiotensin IV, Ang IV, Angiotensin 1-9, Angiotensin 1-7, Angiotensin 1-5, Angiotensin 1-4, AGT, SERPINA8

Target/Specificity

This AGT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-65 amino acids from the N-terminal region of human AGT.

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AGT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AGT Antibody (N-term) - Protein Information**Name** AGT ([HGNC:333](#))

Synonyms SERPINA8

Function Essential component of the renin-angiotensin system (RAS), a potent regulator of blood pressure, body fluid and electrolyte homeostasis.

Cellular Location

Secreted

Tissue Location

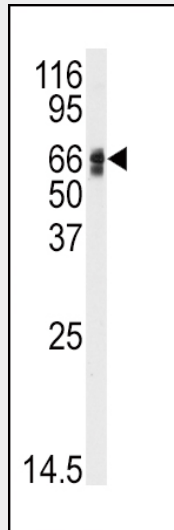
Expressed by the liver and secreted in plasma.

AGT Antibody (N-term) - Protocols

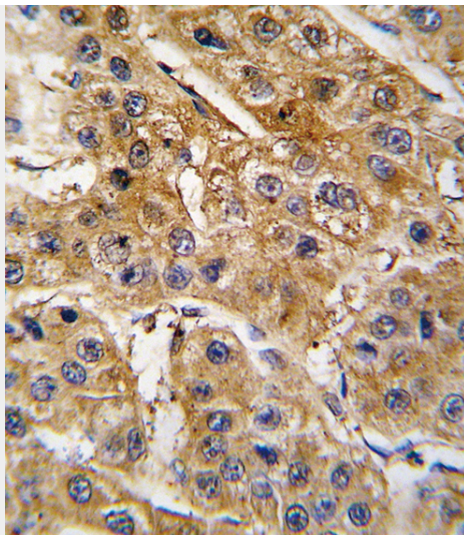
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AGT Antibody (N-term) - Images



Western blot analysis of anti-AGT Antibody (N-term) (Cat.#AP7854a) in HepG2 cell line lysates (35ug/lane). AGT(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with AGT antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

AGT Antibody (N-term) - Background

AGT, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia. Mutations in AGT gene are associated with susceptibility to essential hypertension, and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in AGT gene have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease.

AGT Antibody (N-term) - References

Gurkan,A., Arch. Oral Biol. 54 (4), 337-344 (2009)
Vickers,C., J. Biol. Chem. 277 (17), 14838-14843 (2002)
Donoghue,M., Circ. Res. 87 (5), E1-E9 (2000)