

Rabbit anti-Mouse Angiotensinogen Polyclonal Antibody | anti-AGT antibody

Anti-Angiotensinogen Antibody

CATALOG # AAA46738	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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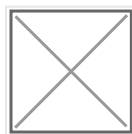
PRODUCT SYNONYMS

Angiotensinogen; Polyclonal Antibody; Anti-Angiotensinogen Antibody; AGT; Angiotensin I; Angiotensin II; Angiotensin III; Angiotensin-1; Angiotensin-2; Angiotensin-3; ANG1; ANHU; P01019; Pre angiotensinogen; Serpin A8; SERPINA8; angiotensinogen (serpin peptidase inhibitor; clade A; member 8); anti-AGT antibody

PRODUCT SPECIFICATIONS

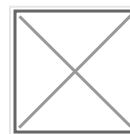
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	477
Applicable Applications for anti-AGT antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E Coli-derived mouse Angiotensinogen recombinant protein (Position: D25-A115). Mouse Angiotensinogen shares 62.2% and 87.9% amino acid (aa) sequence identity with human and rat Angiotensinogen, respectively.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Angiotensinogen was detected in paraffin-embedded sections of mouse kidney tissues using rabbit anti- Angiotensinogen Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of Angiotensinogen expression in mouse liver extract (lane 1), mouse spleen extract (lane 2), mouse testis extract (lane 3) and mouse kidney extract (lane 4). Angiotensinogen at 56KD was detected using rabbit anti- Angiotensinogen Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-AGT antibody	Rabbit IgG polyclonal antibody for Angiotensinogen(AGT) detection. Background: AGT(ANGIOTENSINOGEN), also called SERPINA8, is an alpha-2-globulin that is produced constitutively and released into the circulation mainly by the liver. ATG is a member of the serpin family, although it is not known to inhibit other enzymes, unlike most serpins. Angiotensinogen is also known as renin substrate. The AGT gene is mapped on 1q42.2. And the human angiotensinogen gene contains 5 exons. The expression of AGT and enzymes required for its conversion to angiotensin II in human adipose tissue. Mutations in this AGT 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 have also been associated with non-familial structural atrial fibrillation, and inflammatory bowel disease.
References	1. Abonia, J. P., Abel, K. J., Eddy, R. L., Elliott, R. W., Chapman, V. M., Shows, T. B., Gross, K. W. Linkage of Agt and Actsk-1 to distal mouse chromosome 8 loci: a new conserved linkage. Mammalian Genome 4: 25-32, 1993. 2. Arakawa, K., Minohara, A., Yamada, J., Nakamura, M. Enzymatic degradation and electrophoresis of human angiotensin I. Biochim. Biophys. Acta 168: 106-112, 1968. 3. Basso N, Terragno NA (December 2001). "History about the discovery of the renin-angiotensin system". Hypertension 38 (6): 1246-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	113881
NCBI GeneID	11606
UniProt Accession #	P11859
Molecular Weight	51,990 Da
NCBI Official Full Name	Angiotensinogen
NCBI Official Synonym Full Names	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
NCBI Official Symbol	Agt
NCBI Official Synonym Symbols	AngI; AngII; Aogen; AI265500; Serpina8
NCBI Protein Information	angiotensinogen
UniProt Protein Name	Angiotensinogen
UniProt Gene Name	Agt
UniProt Synonym Gene Names	Serpina8; Ang I; Ang II; Ang III; Ang IV

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.