

Rabbit anti-Human Angiotensinogen/AGT Polyclonal Antibody | anti-AGT antibody

Anti-Angiotensinogen/AGT Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127101	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Angiotensinogen/AGT; Polyclonal Antibody; Anti-Angiotensinogen/AGT Antibody Picoband; 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; anti-AGT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed by the liver and secreted in plasma.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-AGT antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human Angiotensinogen/AGT recombinant protein (Position: D273-R458).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Essential component of the renin-angiotensin system (RAS), a potent regulator of blood pressure, body fluid and electrolyte homeostasis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HepG2 cells using anti-Angiotensinogen/AGT antibody (AAA127101).Overlay histogram showing HepG2 cells stained with AAA127101 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Angiotensinogen/AGT Antibody (AAA127101, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Angiotensinogen/AGT using anti-Angiotensinogen/AGT antibody (AAA127101).Angiotensinogen/AGT was detected in a paraffin-embedded section of human rectum adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Angiotensinogen/AGT Antibody (AAA127101) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Angiotensinogen/AGT using anti-Angiotensinogen/AGT antibody (AAA127101). Angiotensinogen/AGT was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Angiotensinogen/AGT Antibody (AAA127101) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Angiotensinogen/AGT using anti-Angiotensinogen/AGT antibody (AAA127101). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human hepatocellular carcinoma tumor tissue (HCCT) lysates, Lane 2: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human HUH-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Angiotensinogen/AGT antigen affinity purified polyclonal antibody (#AAA127101) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Angiotensinogen/AGT at approximately 53 kDa. The expected band size for Angiotensinogen/AGT is at 53 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AGT antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-AGT antibody	Primary Antibodies ; Cardiovascular ; G Protein Signaling ; Signal Transduction ; Signaling Pathway
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 #	532198
NCBI GeneID	183
UniProt Accession #	P01019; Q16358; Q16359; Q96F91
Molecular Weight	53,154 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	ANHU; SERPINA8
NCBI Protein Information	angiotensinogen; serpin A8; angiotensin I; angiotensin II; pre-angiotensinogen; alpha-1 antiproteinase, antitrypsin; serine (or cysteine) proteinase inhibitor
UniProt Protein Name	Angiotensinogen
UniProt Gene Name	AGT
UniProt Synonym Gene Names	SERPINA8; Ang I; Ang II; Ang III; Ang IV
UniProt Entry Name	ANGT_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/angiotensinogen-agt-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127101>