

## Product datasheet for **TA321040**

### Angiotensinogen (AGT) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human liver cancer tissue IHC: 25-100 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 34-43 amino acids of human angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	53 kDa
Gene Name:	angiotensinogen
Database Link:	<a href="#">NP_000020</a> <a href="#">Entrez Gene 11606 Mouse</a> <a href="#">Entrez Gene 24179 Rat</a> <a href="#">Entrez Gene 183 Human</a> <a href="#">P01019</a>



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**Background:**

The protein encoded by this gene; 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 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 have also been associated with non-familial structural atrial fibrillation; and inflammatory bowel disease.

**Synonyms:**

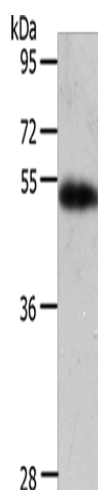
ANHU; SERPINA8

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Renin-angiotensin system

**Product images:**

Gel: 10%SDS-PAGE

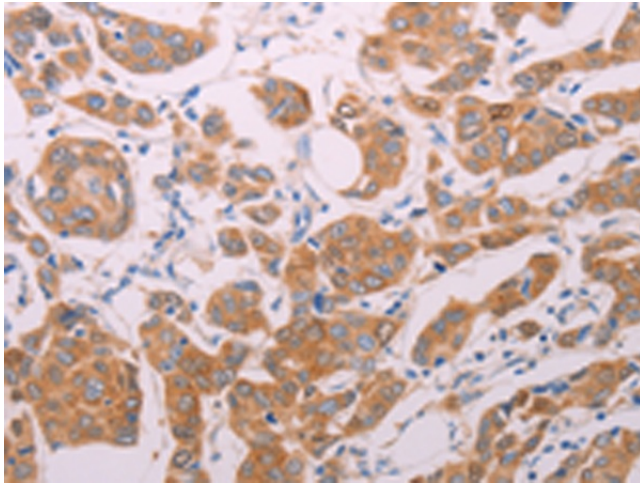
Lysate: 40 µg

Lane: Human liver cancer tissue

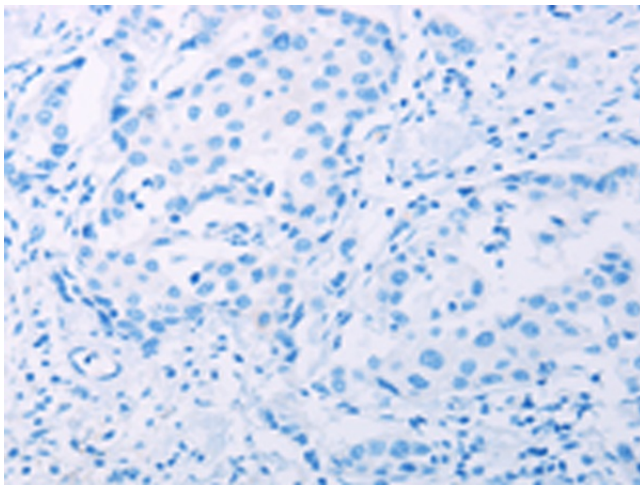
Primary antibody: TA321040 (AGT/Angiotensin-1 Antibody) at dilution 1/700

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

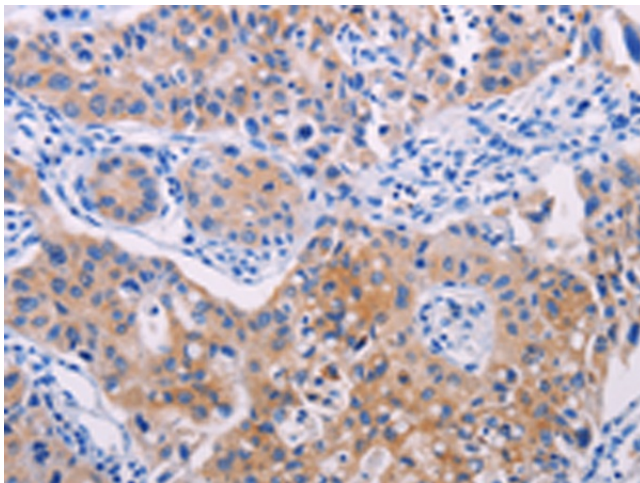
Exposure time: 5 minutes



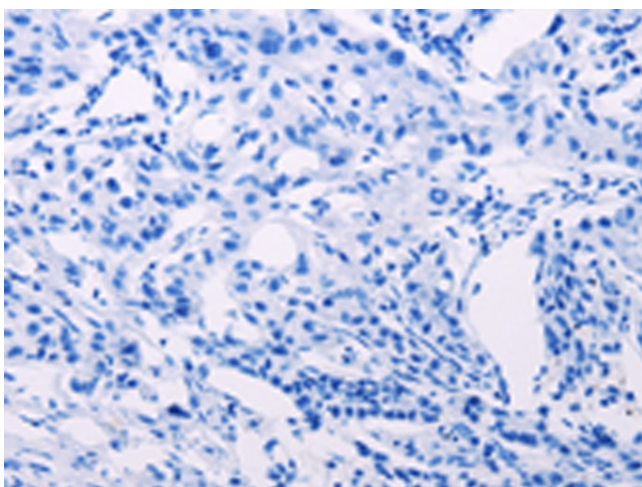
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321040 (AGT/Angiotensin-1 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA321040 (AGT/Angiotensin-1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA321040 (AGT/Angiotensin-1 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA321040 (AGT/Angiotensin-1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)