

CUSABIO TECHNOLOGY LLC

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AGT Recombinant Monoclonal Antibody

Product Code	CSB-RA263831A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P01019
Immunogen	A synthesized peptide derived from human Angiotensinogen
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Essential component of the renin-angiotensin system (RAS), a potent regulator of blood pressure, body fluid and electrolyte homeostasis.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular; Metabolism; Signal transduction
Gene Names	AGT
Clone No.	8A9

Image



IHC image of CSB-RA263831A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The AGT recombinant monoclonal antibody is produced using protein and DNA recombinant technology. Mice are first immunized with a synthetic peptide derived from human AGT. After a certain period, the spleen of the mice is removed aseptically, and total RNA is extracted from the spleen cells. The RNA is then reversely transcribed into cDNA, which serves as a template for PCR amplification of the AGT antibody gene. The resulting gene is inserted into a

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vector and transfected into host cells for culture. The AGT recombinant monoclonal antibody is purified from the cell culture supernatant by affinity chromatography. It is thoroughly verified and can be used for human AGT protein detection in ELISA and IHC experiments.

AGT is a protein that is produced by the liver and secreted into the bloodstream. It plays a crucial role in the renin-angiotensin system (RAS), which is responsible for regulating blood pressure, fluid, and electrolyte balance in the body. AGT expression is also regulated by a number of factors, including hormones such as estrogen, insulin, and glucocorticoids, as well as cytokines and growth factors. Dysregulation of AGT expression has been implicated in the pathogenesis of a variety of cardiovascular and renal diseases, including hypertension, heart failure, and chronic kidney disease.