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AGT Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1300a

Product Information

Application	WB, E
Primary Accession	P01019
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1B1
Isotype	IgG2b
Calculated MW	52070
Description	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 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.
Immunogen	Purified recombinant fragment of human AGT expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

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
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AGT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

References

1. Am J Physiol Heart Circ Physiol. 2007 Sep;293(3):H1900-7. 2. Regul Pept. 2006 Jan 15;133(1-3):155-9.

Images

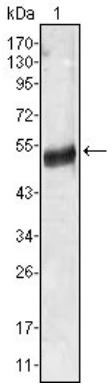


Figure 1: Western blot analysis using AGT mouse mAb against human plasma (1).

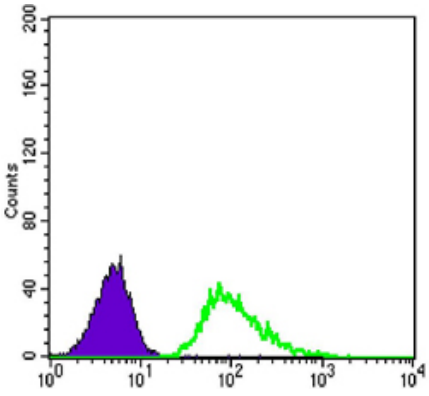


Figure 3: Flow cytometric analysis of A549 cells using TUBB3 mouse mAb (green) and negative control (purple).

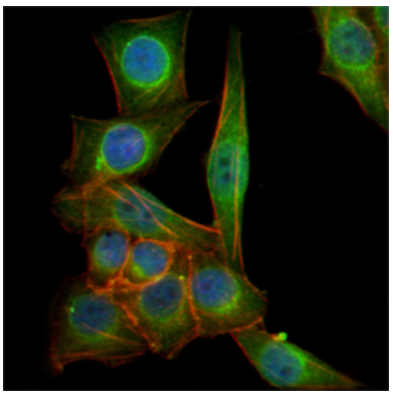


Figure 2: Immunofluorescence analysis of PANC-1 cells using TUBB3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

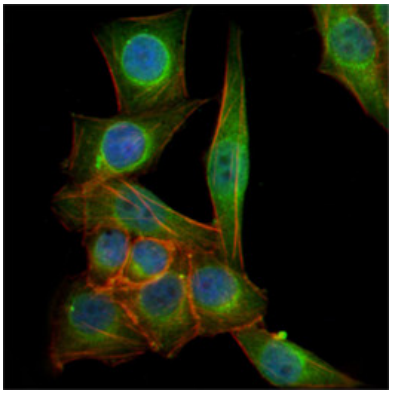


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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.