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AGT Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AGT.
Catalog # AT1068a

Specification

AGT Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P01019
Other Accession	BC011519
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 lambda**
Calculated MW	**52070**

AGT Antibody (monoclonal) (M01) - 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

Target/Specificity
AGT (AAH11519, 376 a.a. ~ 485 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
AGT Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

AGT Antibody (monoclonal) (M01) - Protocols

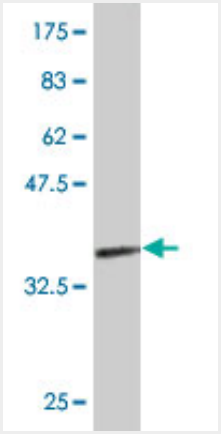
Provided below are standard protocols that you may find useful for product applications.

- Western Blot

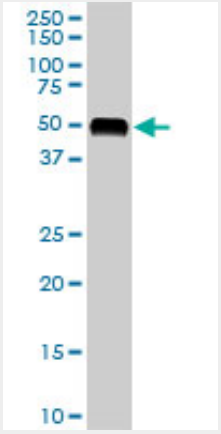
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- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AGT Antibody (monoclonal) (M01) - Images

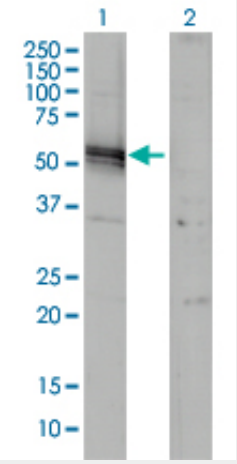


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



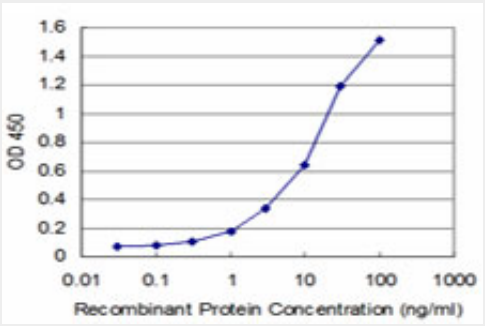
AGT monoclonal antibody (M01), clone 1A10 Western Blot analysis of AGT expression in HepG2 ((Cat # AT1068a)

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Western Blot analysis of AGT expression in transfected 293T cell line by AGT monoclonal antibody (M01), clone 1A10.

Lane 1: AGT transfected lysate(53 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AGT is approximately 1ng/ml as a capture antibody.

AGT Antibody (monoclonal) (M01) - 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.

AGT Antibody (monoclonal) (M01) - References

1.A haplotype of human angiotensinogen gene containing -217A increases blood pressure in transgenic mice as compared to -217G.Jain S, Vinukonda G, Fiering SN, Kumar A.Am J Physiol Regul Integr Comp Physiol. 2008 Dec;295(6):R1849-57. Epub 2008 Oct 22.2.HNF-1 alpha plays an important role in IL-6 induced expression of the Human Angiotensinogen Gene.Jain S, Li Y, Patil S, Kumar A.Am J Physiol Cell Physiol. 2007 Jul;293(1):C401-10. Epub 2007 May 2.