

Anti-Angiotensinogen antibody [EPR2931] ab108334

重组 RabMAb

★★★★ 4 Abreviews 10 References 5 图像

概述

产品名称	Anti-Angiotensinogen抗体[EPR2931]
描述	兔单克隆抗体[EPR2931] to Angiotensinogen
宿主	Rabbit
特异性	ab108334 is raised against the Human Angiotensinogen protein. This has little homology with mouse or rat Angiotensinogen and in our hands we do not get good results when testing in these species (in western blot the band is weak or absent and at a lower molecular weight than in human samples) therefore we cannot guarantee this product for use in these species. When using this antibody for western blot we recommend blocking with 5% BSA for best results. In our hands, blocking with milk does not give optimal results in WB and some lower molecular weight binding can be observed.
经测试应用	适用于: WB, IP, ICC/IF 不适用于: Flow Cyt or IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human fetal artery, fetal heart, fetal liver, adult kidney, HepG2, 293T, and plasma lysates; HepG2 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2931
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab108334于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 53 kDa. Block with 5% BSA
IP		1/10 - 1/100.
ICC/IF	★★★★★ (1)	1/100 - 1/250.

应用说明 Is unsuitable for Flow Cyt or IHC-P.

靶标

功能

Essential component of the renin-angiotensin system (RAS), a potent regulator of blood pressure, body fluid and electrolyte homeostasis. In response to lowered blood pressure, the enzyme renin cleaves angiotensinogen to produce angiotensin-1 (angiotensin 1-10). Angiotensin-1 is a substrate of ACE (angiotensin converting enzyme) that removes a dipeptide to yield the physiologically active peptide angiotensin-2 (angiotensin 1-8). Angiotensin-1 and angiotensin-2 can be further processed to generate angiotensin-3 (angiotensin 2-8), angiotensin-4 (angiotensin 3-8). Angiotensin 1-7 is cleaved from angiotensin-2 by ACE2 or from angiotensin-1 by MME (neprilysin). Angiotensin 1-9 is cleaved from angiotensin-1 by ACE2.

Angiotensin-2 acts directly on vascular smooth muscle as a potent vasoconstrictor, affects cardiac contractility and heart rate through its action on the sympathetic nervous system, and alters renal sodium and water absorption through its ability to stimulate the zona glomerulosa cells of the adrenal cortex to synthesize and secrete aldosterone.

Angiotensin-3 stimulates aldosterone release.

Angiotensin 1-7 is a ligand for the G-protein coupled receptor MAS1 (By similarity). Has vasodilator and antidiuretic effects (By similarity). Has an antithrombotic effect that involves MAS1-mediated release of nitric oxide from platelets.

组织特异性 Expressed by the liver and secreted in plasma.

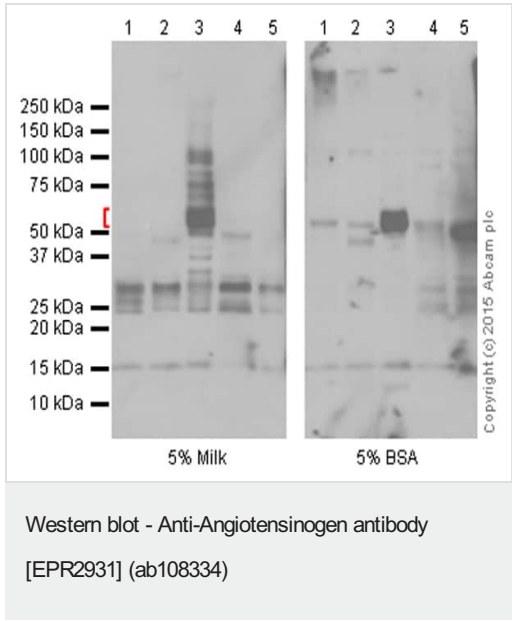
疾病相关

Genetic variations in AGT are a cause of susceptibility to essential hypertension (EHT) [MIM:145500]. Essential hypertension is a condition in which blood pressure is consistently higher than normal with no identifiable cause.

Defects in AGT are a cause of renal tubular dysgenesis (RTD) [MIM:267430]. RTD is an

	autosomal recessive severe disorder of renal tubular development characterized by persistent fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype).
序列相似性	Belongs to the serpin family.
翻译后修饰	Beta-decarboxylation of Asp-34 in angiotensin-2, by mononuclear leukocytes produces alanine. The resulting peptide form, angiotensin-A, has the same affinity for the AT1 receptor as angiotensin-2, but a higher affinity for the AT2 receptor.
细胞定位	Secreted.

图片



All lanes : Anti-Angiotensinogen antibody [EPR2931] (ab108334) at 1/1000 dilution

- Lane 1 :** Mouse kidney whole tissue lysate
- Lane 2 :** Rat kidney whole tissue lysate
- Lane 3 :** Human kidney whole tissue lysate
- Lane 4 :** Mouse liver whole tissue lysate
- Lane 5 :** Rat liver whole tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

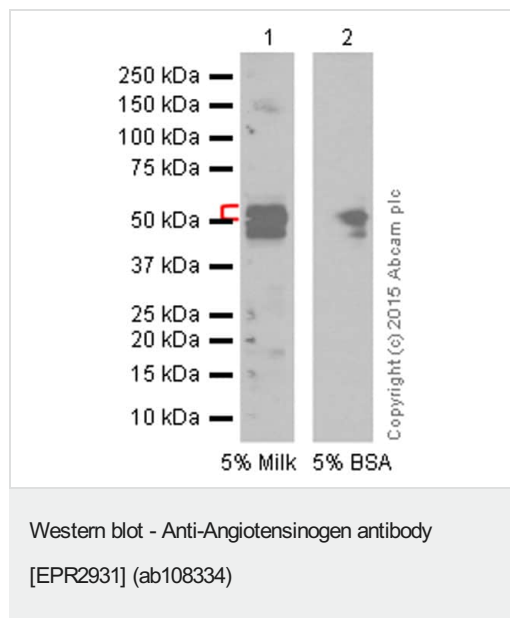
All lanes : Goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/2000 dilution

Predicted band size: 53 kDa

Exposure time: 1 minute

Ab108334 targeting angiotensinogen in various mouse, rat and human tissues (see lane descriptions).

Blocking buffer for the first lanes 1-5: 5% NFDM/TBST; the second lanes 1-5: BSA/TBST.



All lanes : Anti-Angiotensinogen antibody [EPR2931] (ab108334)
at 1/1000 dilution

All lanes : Human fetal liver whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

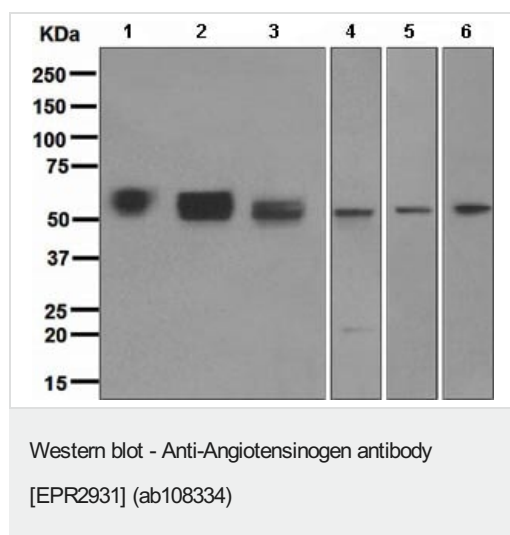
All lanes : Goat anti-rabbit IgG (H+L) peroxidase conjugated at
1/2000 dilution

Predicted band size: 53 kDa

Exposure time: 3 minutes

Lane 1 blocking buffer: NFDm/TBST

Lane 2 blocking buffer: BSA/TBST



All lanes : Anti-Angiotensinogen antibody [EPR2931] (ab108334)
at 1/1000 dilution

Lane 1 : Human fetal artery lysate

Lane 2 : Human fetal heart lysate

Lane 3 : Human fetal liver lysate

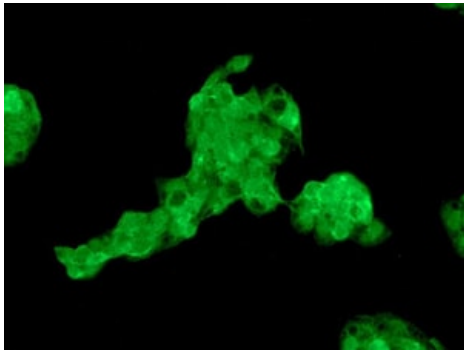
Lane 4 : HepG2 lysate

Lane 5 : 293T lysate

Lane 6 : Human plasma lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 53 kDa



ab108334, at 1/100 dilution, staining Angiotensinogen in HepG2 cells by Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-Angiotensinogen antibody [EPR2931] (ab108334)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Angiotensinogen antibody [EPR2931]
(ab108334)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors