

Anti-Cystatin C antibody [EPR4413] ab109508

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-Cystatin C抗体[EPR4413]
描述	兔单克隆抗体[EPR4413] to Cystatin C
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human testis, Caco2, U20S, HeLa, HepG2, and U87-MG lysates, rat heart tissue lysate and mouse thymus tissue lysate. IHC-P: Human brain and kidney tissue, mouse kidney tissue and rat kidney tissue.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4413

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab109508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)	1/10000 - 1/50000. Detects a band of approximately 13 kDa (predicted molecular weight: 15 kDa).
IHC-P		1/250 - 1/8000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明

Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

功能

As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity.

组织特异性

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level).
Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ovary and the lowest in the submandibular gland.

疾病相关

Amyloidosis 6
Macular degeneration, age-related, 11

序列相似性

Belongs to the cystatin family.

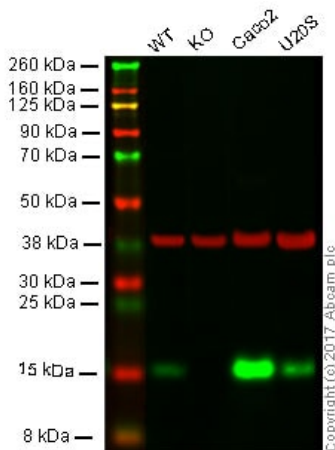
翻译后修饰

The Thr-25 variant is O-glycosylated with a core 1 or possibly core 8 glycan. The signal peptide of the O-glycosylated Thr-25 variant is cleaved between Ala-20 and Val-21.

细胞定位

Secreted.

图片



Western blot - Anti-Cystatin C antibody [EPR4413] (ab109508)

Lane 1: Wild type HAP1 whole cell lysate (20 µg)

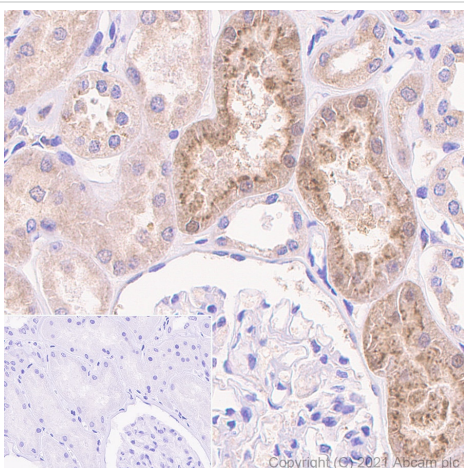
Lane 2: CST3 knockout HAP1 whole cell lysate (20 µg)

Lane 3: Caco2 whole cell lysate (20 µg)

Lane 4: U20S whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109508 observed at 15 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

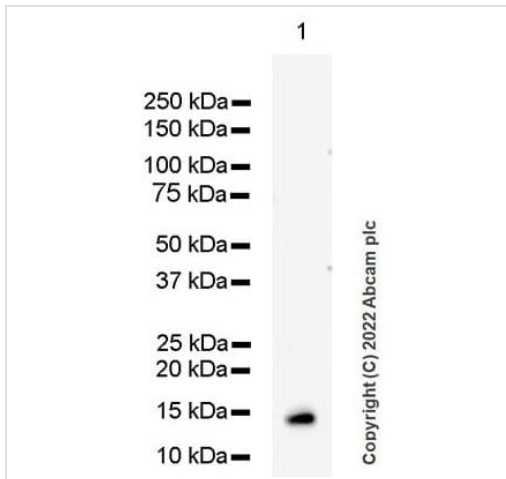
ab109508 was shown to specifically react with CST3 when CST3 knockout samples were used. Wild-type and CST3 knockout samples were subjected to SDS-PAGE. Ab109508 and **ab9484** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 10000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin C antibody [EPR4413] (ab109508)

Immunohistochemistry analysis of paraffin-embedded human kidney tissue sections labelling Cystatin C with ab109508 at 1/8000 dilution. The section was incubated with ab109508 for 30 mins at room temperature. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Sections were counterstained with Hematoxylin. Antigen retrieval was heat mediated with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Positive staining on human kidney tissue. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-Cystatin C antibody [EPR4413]
(ab109508)

Anti-Cystatin C antibody [EPR4413] (ab109508) at 1/10000 dilution
+ Mouse thymus tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

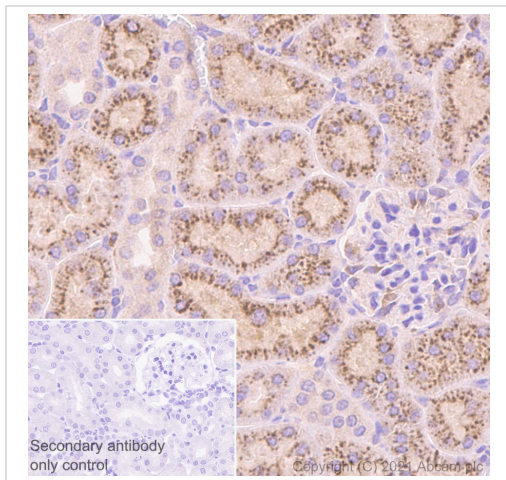
Predicted band size: 15 kDa

Observed band size: 13 kDa

Exposure time: 3 minutes

Blocking buffer and concentration : 5% NFD/MTBST

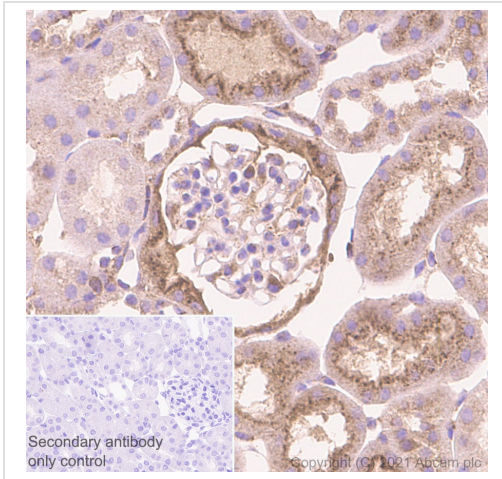
Diluting buffer and concentration : 5% NFD/MTBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Cystatin C antibody
[EPR4413] (ab109508)

Immunohistochemistry analysis of paraffin-embedded rat kidney tissue sections labelling Cystatin C with ab109508 at 1/8000 dilution. The section was incubated with ab109508 for 30 mins at room temperature. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) was used as the secondary antibody. Sections were counterstained with Hematoxylin. Antigen retrieval was heat mediated with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

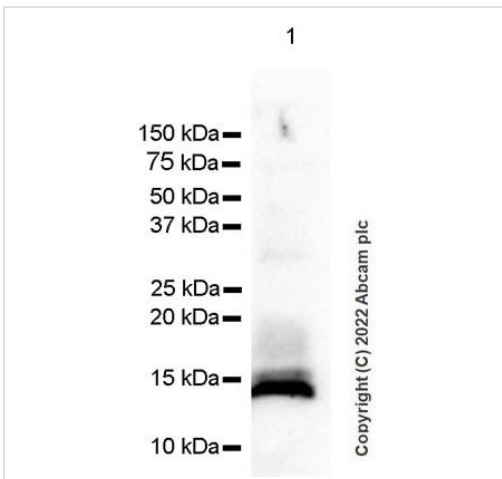
Positive staining on rat kidney tissue. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin C antibody [EPR4413] (ab109508)

Immunohistochemistry analysis of paraffin-embedded mouse kidney tissue sections labelling Cystatin C with ab109508 at 1/8000 dilution. The section was incubated with ab109508 for 30 mins at room temperature. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Sections were counterstained with Hematoxylin. Antigen retrieval was heat mediated with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Positive staining on mouse kidney tissue. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument.



Western blot - Anti-Cystatin C antibody [EPR4413] (ab109508)

Anti-Cystatin C antibody [EPR4413] (ab109508) at 1/10000 dilution + Rat heart tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

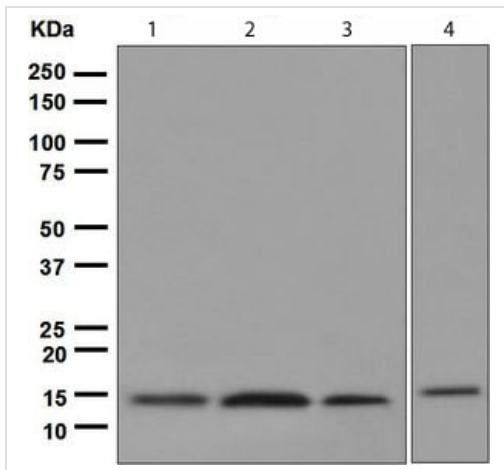
Predicted band size: 15 kDa

Observed band size: 13 kDa

Exposure time: 80 seconds

Blocking buffer and concentration : 5% NFDM/TBST

Diluting buffer and concentration : 5% NFDM/TBST



Western blot - Anti-Cystatin C antibody [EPR4413] (ab109508)

All lanes : Anti-Cystatin C antibody [EPR4413] (ab109508) at 1/10000 dilution

Lane 1 : Human testis lysate

Lane 2 : HeLa cell lysate

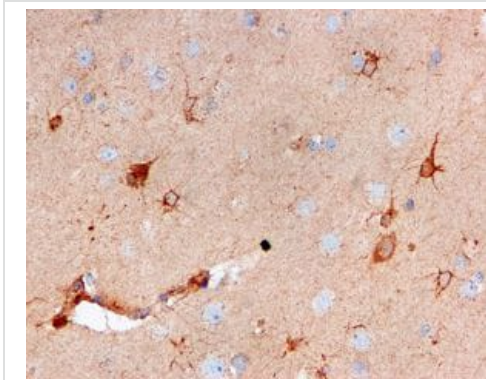
Lane 3 : HepG2 cell lysate

Lane 4 : U87-MG cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 15 kDa

Observed band size: 13 kDa







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin C antibody [EPR4413] (ab109508)

Immunohistochemical analysis of paraffin-embedded Human brain tissue using ab109508 at dilution of 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Cystatin C antibody [EPR4413] (ab109508)

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