


### Anti-Cystatin-B antibody [EPR3931] ab92449

敲除验证 重组 RabMAb

#### 5 图像

#### 概述

产品名称	Anti-Cystatin-B抗体[EPR3931]
描述	兔单克隆抗体[EPR3931] to Cystatin-B
宿主	Rabbit
经测试应用	适用于: WB, IHC-P 不适用于: ICC/IF or IP
种属反应性	与反应: Human 预测可用于: Rat 
免疫原	Synthetic peptide within Human Cystatin-B aa 50-150. The exact sequence is proprietary.
阳性对照	WB: HEK293T, U87-MG, JAR, and Human bladder cell lysates. IHC-P: Human colon tissue, human 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"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</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	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR3931
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab92449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。

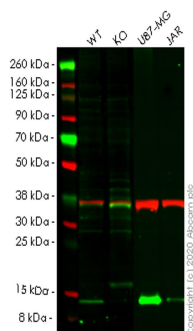
应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 11 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

应用说明      Is unsuitable for ICC/IF or IP.

## 靶标

功能	This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B.
疾病相关	Defects in CSTB are the cause of progressive myoclonic epilepsy type 1 (EPM1) [MIM:254800]. EPM1 is an autosomal recessive disorder characterized by severe, stimulus-sensitive myoclonus and tonic-clonic seizures. The onset, occurring between 6 and 13 years of age, is characterized by convulsions. Myoclonus begins 1 to 5 years later. The twitchings occur predominantly in the proximal muscles of the extremities and are bilaterally symmetrical, although asynchronous. At first small, they become late in the clinical course so violent that the victim is thrown to the floor. Mental deterioration and eventually dementia develop.
序列相似性	Belongs to the cystatin family.
细胞定位	Cytoplasm. Nucleus.

## 图片



Western blot - Anti-Cystatin-B antibody [EPR3931] (ab92449)

**All lanes** : Anti-Cystatin-B antibody [EPR3931] (ab92449) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : CSTB knockout HEK293T cell lysate

**Lane 3** : U87-MG cell lysate

**Lane 4** : JAR cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

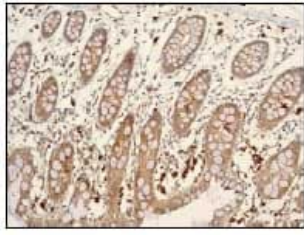
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 11 kDa

**Observed band size:** 15 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab92449 observed at 15 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

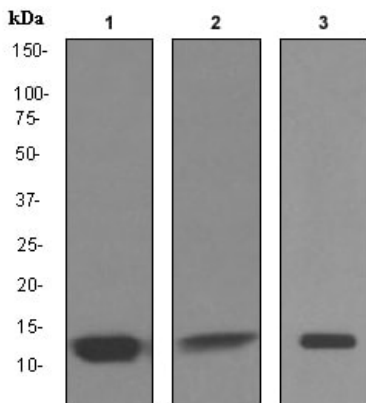
ab92449 Anti-Cystatin-B antibody [EPR3931] was shown to specifically react with Cystatin-B in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266321](#) (knockout cell lysate [ab257905](#)) was used. Wild-type and Cystatin-B knockout samples were subjected to SDS-PAGE. ab92449 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin-B antibody [EPR3931] (ab92449)

ab92449, at 1/100 dilution, staining Cystatin-B in paraffin-embedded Human colon tissue.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Western blot - Anti-Cystatin-B antibody [EPR3931] (ab92449)

**All lanes :** Anti-Cystatin-B antibody [EPR3931] (ab92449) at 1/1000 dilution

**Lane 1 :** U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cell lysate

**Lane 2 :** JAR cell lysate

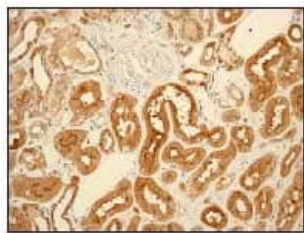
**Lane 3 :** Human bladder tissue lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 11 kDa







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cystatin-B antibody [EPR3931] (ab92449)

ab92449, at 1/100 dilution, staining Cystatin-B in paraffin-embedded Human kidney tissue.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Why choose a recombinant antibody?

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

Anti-Cystatin-B antibody [EPR3931] (ab92449)

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

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