

Anti-Calpain 1 antibody [EPR3319] ab108400

敲除验证
重组
RabMAb

★★★★☆
[1 Abreviews](#)
[18 References](#)
[12 图像](#)

概述

产品名称	Anti-Calpain 1抗体[EPR3319]
描述	兔单克隆抗体[EPR3319] to Calpain 1
宿主	Rabbit
特异性	This antibody recognises the large subunit of Calpain
经测试应用	适用于: WB, IHC-P, ICC/IF, Flow Cyt (Intra)
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human fetal kidney, U937, A431, (D) 293T, and T47D cell lysates; Human kidney tissue; HeLa cells.
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	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3319
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab108400 于以下的经测试应用

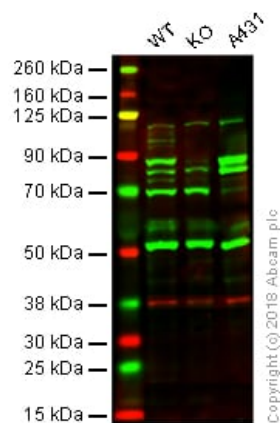
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab 评论	说明
WB		1/1000 - 1/5000. Predicted molecular weight: 82 kDa. For unpurified use at 1/1000 - 1/10000.
IHC-P		1/200. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> . For unpurified use at 1/500 - 1/1000.
ICC/IF		1/50. For unpurified use at 1/250 - 1/500.
Flow Cyt (Intra)		1/380. For unpurified use at 1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

靶标

功能	Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.
组织特异性	Ubiquitous.
序列相似性	Belongs to the peptidase C2 family. Contains 1 calpain catalytic domain. Contains 4 EF-hand domains.
细胞定位	Cytoplasm. Cell membrane. Translocates to the plasma membrane upon Ca(2+) binding.

图片



Western blot - Anti-Calpain 1 antibody [EPR3319] (ab108400)

All lanes : Anti-Calpain 1 antibody [EPR3319] (ab108400)

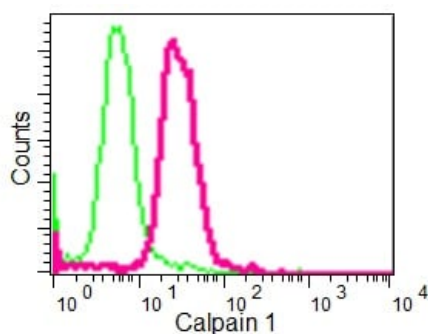
Lane 1 : Wild type HAP1 whole cell lysate

Lane 2 : CAPN1 (Calpain 1) knockout HAP1 whole cell lysate

Lane 3 : A431 whole cell lysate

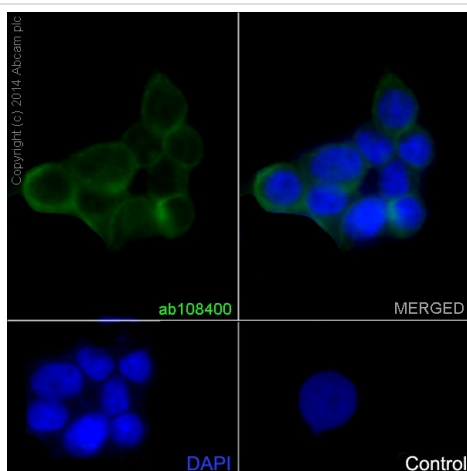
Predicted band size: 82 kDa

Ab108400 was shown to recognize Calpain 1 in wild-type HAP1. A faint cross-reactive band was observed in CAPN1 (Calpain 1) knockout cells at 82 kDa when over-exposed. Due to the immunogen's homology with CAPN2 (Calpain 2 Uniprot: P17655), this band could correspond to the Calpain 2 protein. Please note that cross-reactivity with this protein has not been confirmed experimentally.



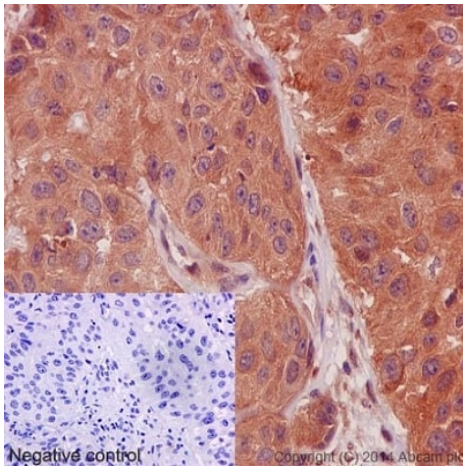
Flow Cytometry (Intracellular) - Anti-Calpain 1 antibody [EPR3319] (ab108400)

Overlay histogram showing Jurkat cells stained with ab108400 (red line) at 1/380 dilution. The cells were fixed with 2% paraformaldehyde. The secondary antibody used was a FITC conjugated goat anti-rabbit IgG at 1/150 dilution. Isotype control antibody (green line) was rabbit monoclonal IgG used under the same conditions.



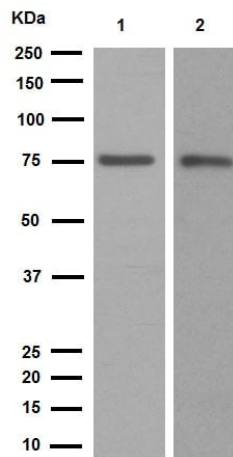
Immunocytochemistry/ Immunofluorescence - Anti-Calpain 1 antibody [EPR3319] (ab108400)

ab108400 staining Calpain 1 in the T-47D cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody (1/70). **ab150077**(1/500) an Alexa Fluor®488-conjugated Goat anti-rabbit IgG was used as the secondary antibody. Nuclei were counterstained with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calpain 1 antibody [EPR3319] (ab108400)

ab108400 staining Calpain 1 in Human transitional cell carcinoma of bladder tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/200). An undiluted HRP-conjugated mouse anti-rabbit IgG was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.



Western blot - Anti-Calpain 1 antibody [EPR3319] (ab108400)

All lanes : Anti-Calpain 1 antibody [EPR3319] (ab108400) at 1/1000 dilution

Lane 1 : Mouse brain lysate

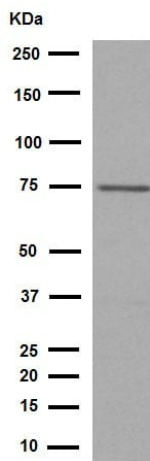
Lane 2 : Rat brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), HRP-conjugated at 1/1000 dilution

Predicted band size: 82 kDa



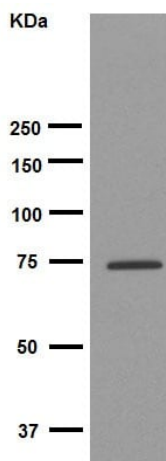
Western blot - Anti-Calpain 1 antibody [EPR3319]
(ab108400)

Anti-Calpain 1 antibody [EPR3319] (ab108400) at 1/1000 dilution +
C6 Lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000 dilution

Predicted band size: 82 kDa



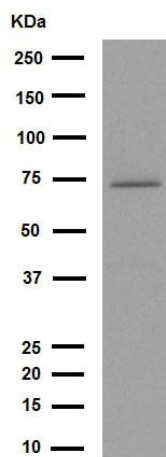
Western blot - Anti-Calpain 1 antibody [EPR3319]
(ab108400)

Anti-Calpain 1 antibody [EPR3319] (ab108400) at 1/5000 dilution +
T47-D Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000 dilution

Predicted band size: 82 kDa



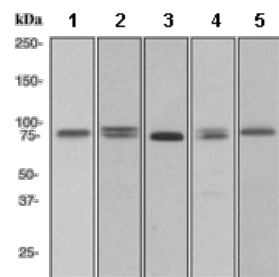
Western blot - Anti-Calpain 1 antibody [EPR3319]
(ab108400)

Anti-Calpain 1 antibody [EPR3319] (ab108400) at 1/5000 dilution +
Human fetal kidney lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/1000 dilution

Predicted band size: 82 kDa



Western blot - Anti-Calpain 1 antibody [EPR3319] (ab108400)

All lanes : Anti-Calpain 1 antibody [EPR3319] (ab108400) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal kidney cell lysate

Lane 2 : U937 cell lysate

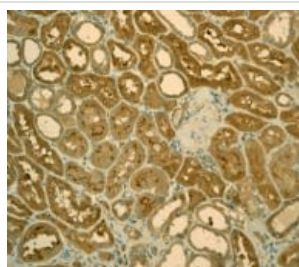
Lane 3 : A431 cell lysate

Lane 4 : 293T cell lysate

Lane 5 : T47D cell lysate

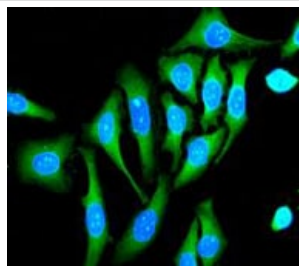
Lysates/proteins at 10 µg per lane.

Predicted band size: 82 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calpain 1 antibody [EPR3319] (ab108400)

ab108400, unpurified, at 1/500 dilution staining Calpain in Human kidney by Immunohistochemistry, Paraffin-embedded tissue.



Immunocytochemistry/ Immunofluorescence - Anti-Calpain 1 antibody [EPR3319] (ab108400)

ab108400, unpurified, at 1/250 dilution staining Calpain in HeLa cells by Immunofluorescence.

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-Calpain 1 antibody [EPR3319] (ab108400)

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