abcam

Product datasheet

Anti-Caspr antibody [EPR7828] ab133634

敲除验证 重组 RabMAb

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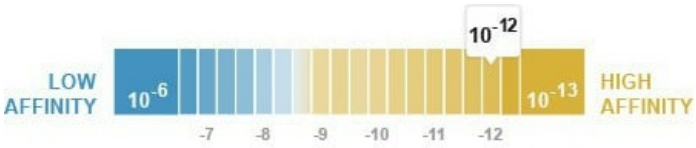
概述

产品名称	Anti-Caspr抗体[EPR7828]
描述	兔单克隆抗体[EPR7828] to Caspr
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF **不适用于:** Flow Cyt or IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human Caspr aa 700-800 (extracellular). The exact sequence is proprietary.
阳性对照	WB: HeLa (Boiled and Unboiled), SH-SY5Y (Boiled and Unboiled), Neuro-2a (Boiled and Unboiled), PC-12 (Boiled and Unboiled) IHC-P: Human cerebrum and Human astrocytoma tissue sections ICC/IF: Neuro-2a cells
常规说明	We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 -20°C. Stable for 12 months at -20°C.
解离常数 (K_D)	K_D = 1.40 x 10^{-12} M



Learn more about K_D

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	EPR7828
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab133634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。

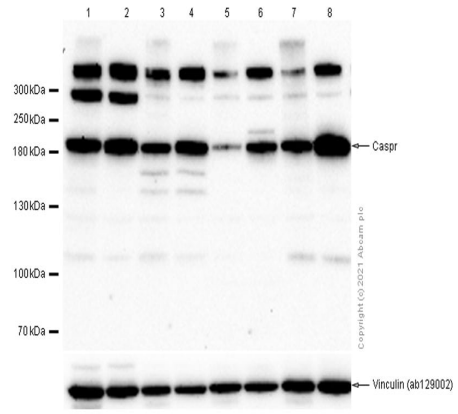
应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 165 kDa (predicted molecular weight: 156 kDa).
IHC-P	★★★★☆ (4)	1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
ICC/IF		1/100.

应用说明 Is unsuitable for Flow Cyt or IP.

靶标

功能	Seems to play a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Seems to demarcate the paranodal region of the axo-glial junction. In association with contactin may have a role in the signaling between axons and myelinating glial cells.
组织特异性	Predominantly expressed in brain. Weak expression detected in ovary, pancreas, colon, lung, heart, intestine and testis.
序列相似性	Belongs to the neurexin family. Contains 2 EGF-like domains. Contains 1 F5/8 type C domain. Contains 1 fibrinogen C-terminal domain. Contains 4 laminin G-like domains.
细胞定位	Membrane.

图片



Western blot - Anti-Caspr antibody [EPR7828] (ab133634)

Lanes 1-7 : Anti-Caspr antibody [EPR7828] (ab133634) at 1/1000 dilution (Purified)
Lane 8 : Anti-Caspr antibody [EPR7828] (ab133634) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate boiled
Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate unboiled
Lane 3 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate boiled
Lane 4 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate unboiled
Lane 5 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate boiled
Lane 6 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate unboiled
Lane 7 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate boiled
Lane 8 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate unboiled

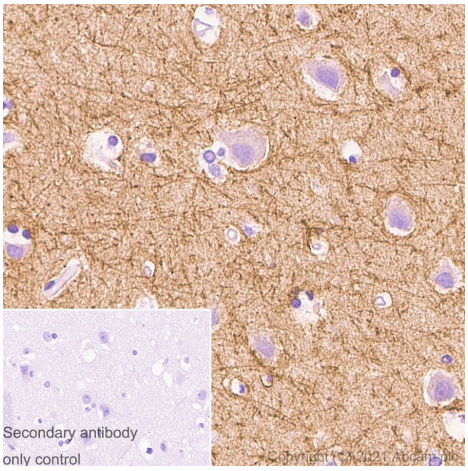
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 156 kDa
Observed band size: 220 kDa

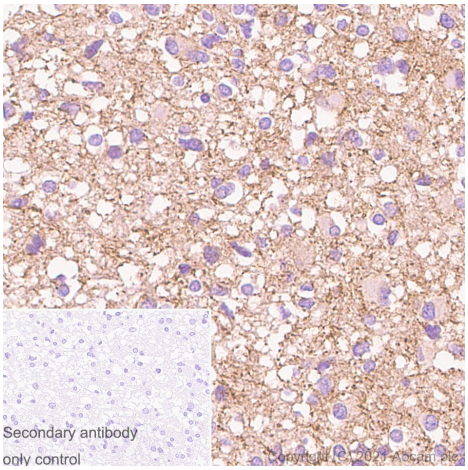
The molecular weight is consistent with that has been described in the literature (PMID: 20610764).

We are unsure about the nature of extra bands.



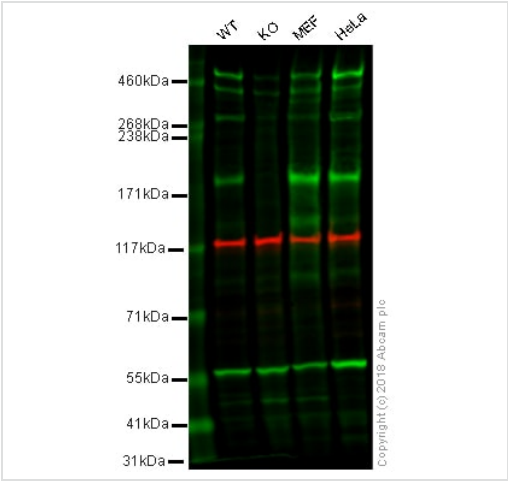
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspr antibody [EPR7828] (ab133634)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebrum tissue sections labeling Caspr with Purified ab133634 at 1:2000 dilution (0.29 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspr antibody [EPR7828] (ab133634)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human astrocytoma tissue sections labeling Caspr with Purified ab133634 at 1:2000 dilution (0.29 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-Caspr antibody [EPR7828] (ab133634)

All lanes : Anti-Caspr antibody [EPR7828] (ab133634) at 1/1000 dilution

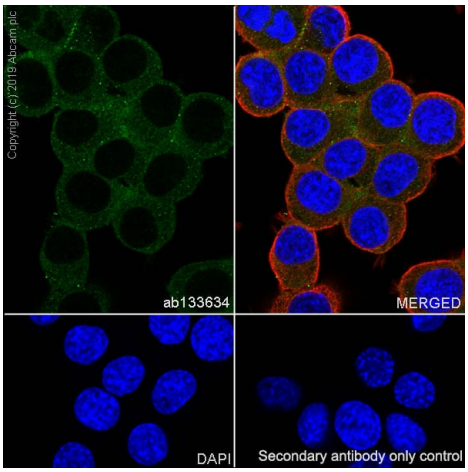
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : CNTNAP1 (Caspr) knockout HAP1 whole cell lysate
Lane 3 : MEF whole cell lysate
Lane 4 : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 156 kDa

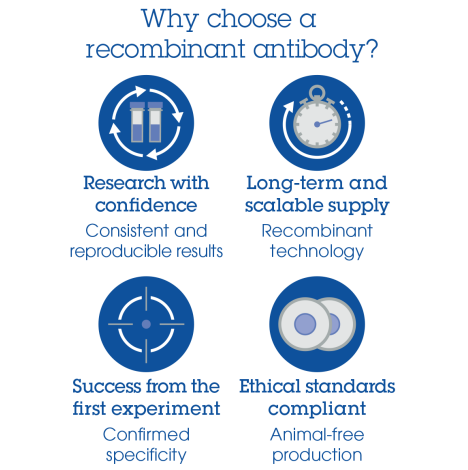
Lanes 1 - 4: Merged signal (red and green). Green - ab133634 observed at 175 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab133634 was shown to recognize Caspr in wild-type HAP1 cells as signal was lost at the expected MW in CNTNAP1 (Caspr) knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and CNTNAP1 (Caspr) knockout samples were subjected to SDS-PAGE. ab133634 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 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 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Caspr antibody [EPR7828] (ab133634)

Immunocytochemistry/ Immunofluorescence analysis of Neuro-2a (mouse neuroblastoma neuroblast) cells labeling Caspr with purified ab133634 at 1/100 (5.7 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Anti-Caspr antibody [EPR7828] (ab133634)

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