abcam

Product datasheet

Anti-Caspr antibody ab34151

KO 評価済

★★★★★ 2 Abreviews 20 References 画像数 6

製品の概要

製品名	Anti-Caspr antibody
製品の詳細	Rabbit polyclonal to Caspr
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, WB, ICC/IF, IP, IHC-FoFr
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 1350 to the C-terminus of Mouse Caspr.Immunogen の所有権に関して(Peptide available as ab34150.)
ポジティブ・コントロール	Rat brain whole cell lysate and PC12 cytoplasmic lysate.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab34151** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

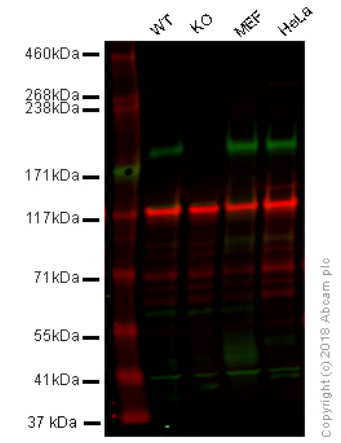
アプリケーション	Abreviews	特記事項
IHC-P	★★★★☆	Use at an assay dependent concentration.

アプリケーション	Abreviews	特記事項
WB		1/250. Detects a band of approximately 180 kDa (predicted molecular weight: 156 kDa).Can be blocked with Mouse Caspr peptide (ab34150).
ICC/IF		Use a concentration of 1 µg/ml.
IP		Use at an assay dependent concentration.
IHC-FoFr	★★★★★	1/3000.

ターゲット情報

機能	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.
組織特異性	Predominantly expressed in brain. Weak expression detected in ovary, pancreas, colon, lung, heart, intestine and testis.
配列類似性	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.
細胞内局在	Membrane.

画像



Western blot - Anti-Caspr antibody (ab34151)

All lanes : Anti-Caspr antibody (ab34151) at 1/250 dilution

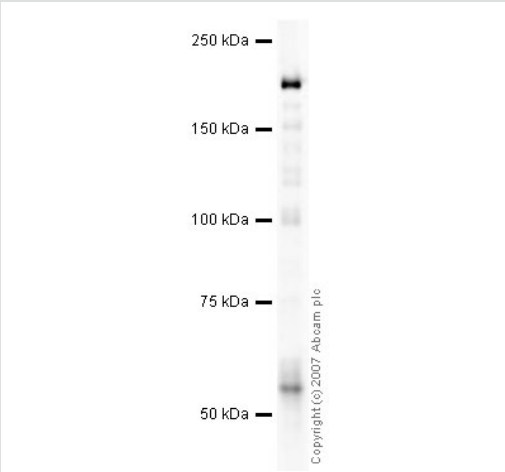
Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : CNTNAP1 (Caspr) knockout HAP1 whole cell lysate
Lane 3 : MEF whole cell lysate
Lane 4 : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 156 kDa
Observed band size: 180 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab34151 observed at 180 kDa. Red - loading control, ab18058, observed at 130 kDa.

ab34151 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. ab34151 and ab18058 (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/250 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.



Western blot - Anti-Caspr antibody (ab34151)

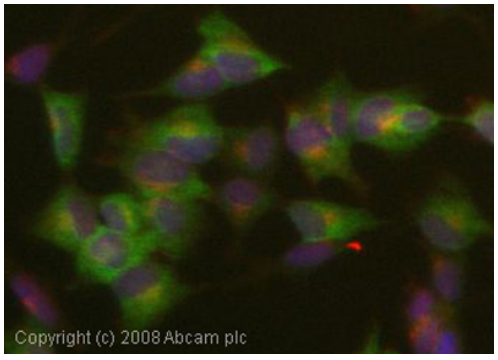
Anti-Caspr antibody (ab34151) at 1/250 dilution + Brain (Rat) Whole Cell Lysate - normal tissue at 10 µg

Secondary
IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

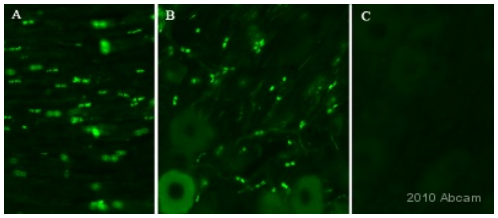
Predicted band size: 156 kDa
Observed band size: 180 kDa
Additional bands at: 58 kDa. We are unsure as to the identity of these extra bands.

Caspr contains a number of potential glycosylation sites so it is thought that this is the reason it runs at 180kDa.



Immunocytochemistry/ Immunofluorescence - Anti-Caspr antibody (ab34151)

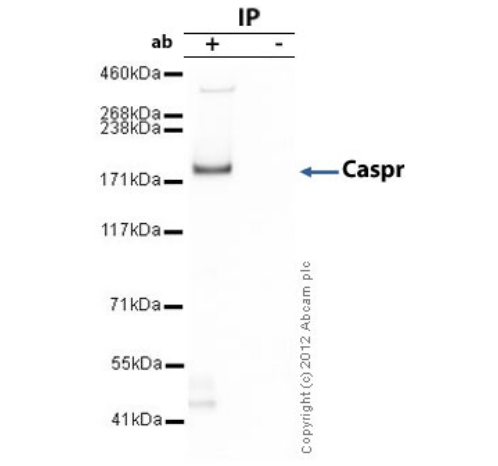
ICC/IF image of ab34151 stained SHSY5Y cells. The cells were 4% PFA fixed (10 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab34151, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Caspr antibody (ab34151)

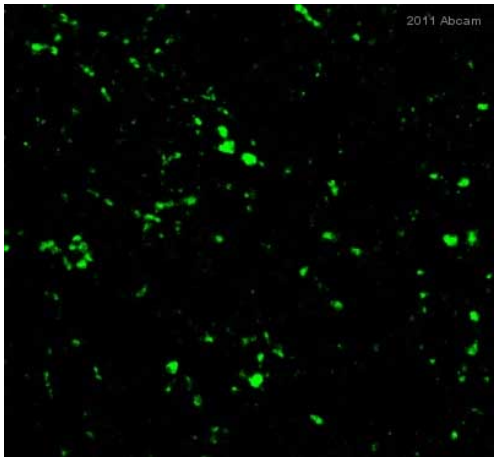
This image is courtesy of an abreview submitted by Sophie Pezet, ESPCI, France

IHC-FoFR image of ab34151 stained sections of mouse brain (30 um). The tissues were from perfused fixed animals perfused with 4% PFA and postfixed 2h in the same fixative. They were cryoprotected in 30% sucrose and cut using a cryostat.



Immunoprecipitation - Anti-Caspr antibody (ab34151)

Caspr was immunoprecipitated using 0.5mg Rat Brain whole tissue lysate, 5µg of Rabbit polyclonal to Caspr and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Rat Brain whole tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation. Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{O}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab34151.
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (ab99697).
Band: 180kDa: Caspr.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Caspr antibody (ab34151)
Image courtesy of an anonymous Abreview.

ab34151 staining Caspr in murine brain tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with paraformaldehyde. Samples were blocked with 20% serum for 1 hour at 20°C followed by incubation with the primary antibody at a 1/300 dilution for 12 hours at 20°C. An HRP-conjugated goat anti-rabbit polyclonal was used as the secondary antibody at a 1/200 dilution.

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