abcam

Product datasheet

Anti-NEAS antibody [D8B7] ab11755

10 Abreviews 21 References 9 Images

Overview

Product name	Anti-NEAS antibody [D8B7]
Description	Mouse monoclonal [D8B7] to NEAS
Host species	Mouse
Tested applications	**Suitable for:** IHC-P, ICC, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human, Drosophila melanogaster
Immunogen	Full length native protein (purified) corresponding to Human NEAS.
Positive control	IHC-P: Mouse and Rat brain tissue. ICC: 3T3, HeLa cells.
General notes	This product was changed from ascites to tissue culture supernatant on 21/05/2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Affinity purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	D8B7
Isotype	IgG2b

Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11755 in the following tested applications.

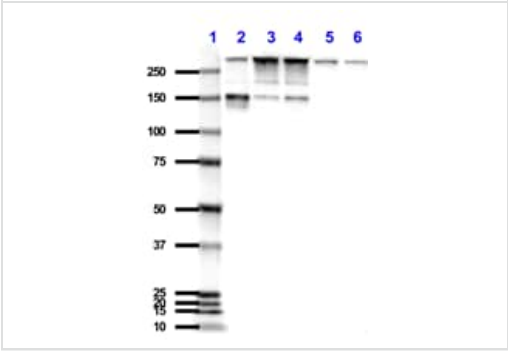
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (2)	Use at an assay dependent concentration. See Abreviews.
ICC		Use at an assay dependent concentration.
WB	★★★★★ (6)	Use at an assay dependent concentration. Predicted molecular weight: 297 kDa.

Target

Function	Fodrin, which seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus candidate for the calcium-dependent movement of the cytoskeleton at the membrane.
Involvement in disease	Defects in SPTAN1 are the cause of epileptic encephalopathy early infantile type 5 (EIEE5) [MIM:613477]. EIEE5 is a disorder characterized by seizures associated with hypsarrhythmia profound mental retardation with lack of visual attention and speech development, as well as spastic quadriplegia.
Sequence similarities	Belongs to the spectrin family. Contains 3 EF-hand domains. Contains 1 SH3 domain. Contains 23 spectrin repeats.
Post-translational modifications	Phosphorylation of Tyr-1176 decreases sensitivity to cleavage by calpain in vitro.
Cellular localization	Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Expressed along the cell membrane in podocytes and presumptive tubule cells during glomerulogenesis and is expressed along lateral cell margins in tubule cells.

Images



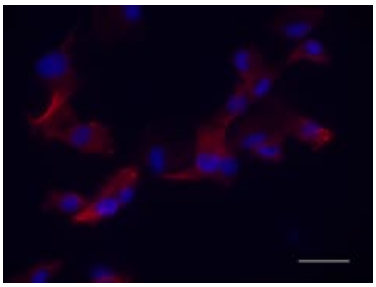
Western blot - Anti-NEAS antibody [D8B7] (ab11755)

Lanes 2-6 : Anti-NEAS antibody [D8B7] (ab11755) at 0.5 µg/ml

Lane 1 : MW marker
Lane 2 : Human Brain lysate at 20 µg
Lane 3 : Mouse Brain lysate at 20 µg
Lane 4 : Rat Brain lysate at 20 µg
Lane 5 : 3T3 cell lysate at 20 µg
Lane 6 : HeLa cell lysate at 20 µg

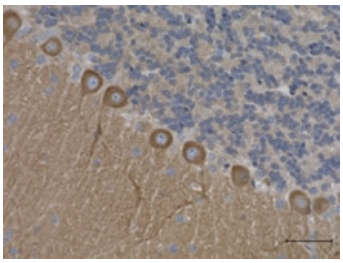
Secondary
Lanes 2-6 : HRP labeled goat anti-mouse IgG

Predicted band size: 297 kDa



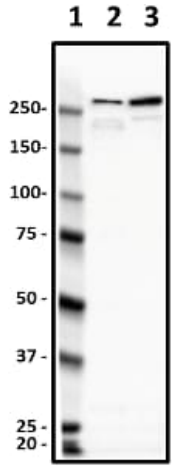
Immunocytochemistry - Anti-NEAS antibody [D8B7] (ab11755)

ICC staining of purified ab11755 on 3T3 cells. The cells were fixed with 4% PFA, permeabilized with a buffer containing 0.1% Triton X-100 and 0.25% BSA, and blocked with 2% normal goat serum and 0.02% BSA. The cells were then incubated with 1 µg/ml of the primary antibody for overnight at 4°C, followed by incubation with 2.5 µg/ml of Alexa Fluor® 594 goat anti-Mouse IgG for one hour at room temperature. Nuclei were counterstained with DAPI, and the slides were mounted with ProLong™ Gold Antifade Mountant. The image was captured with a 40X objective. Scale bar: 50 µm



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NEAS antibody [D8B7] (ab11755)

IHC staining of purified ab11755 on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R, the tissue was incubated with 1 µg/ml of the primary antibody overnight at 4°C. HRP kit was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



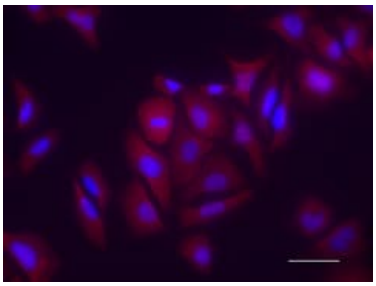
Western blot - Anti-NEAS antibody [D8B7] (ab11755)

Lanes 2-3 : Anti-NEAS antibody [D8B7] (ab11755) at 0.1 µg/ml

Lane 1 : MW marker
Lane 2 : Drosophila head lysate at 20 µg
Lane 3 : Drosophila S2 (embryonic) cell lysate at 20 µg

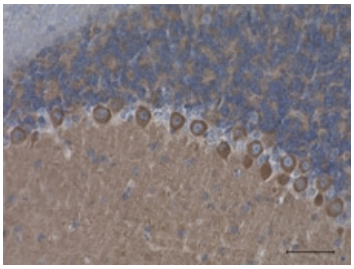
Secondary
Lanes 2-3 : HRP-labeled goat anti-mouse IgG

Predicted band size: 297 kDa



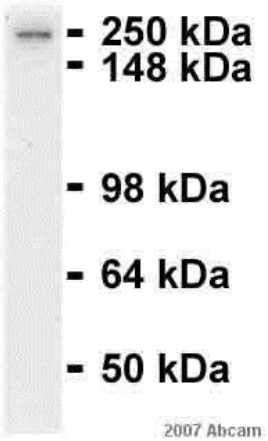
Immunocytochemistry - Anti-NEAS antibody [D8B7] (ab11755)

ICC staining of purified ab11755 on HeLa cells. The cells were fixed with 4% PFA, permeabilized with a buffer containing 0.1% Triton X-100 and 0.25% BSA, and blocked with 2% normal goat serum and 0.02% BSA. The cells were then incubated with 1 µg/ml of the primary antibody for overnight at 4°C, followed by incubation with 2.5 µg/ml of Alexa Fluor® 594 goat anti-Mouse IgG for one hour at room temperature. Nuclei were counterstained with DAPI, and the slides were mounted with ProLong™ Gold Antifade Mountant. The image was captured with a 40X objective. Scale bar: 50 µm



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NEAS antibody [D8B7] (ab11755)

IHC staining of purified ab11755 on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R, the tissue was incubated with 1 µg/ml of the primary antibody overnight at 4°C. HRP kit was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm



Western blot - Anti-NEAS antibody [D8B7] (ab11755)

This image is courtesy of an anonymous Abreview

Anti-NEAS antibody [D8B7] (ab11755) at 1/1000 dilution + 3T3 whole cell lysate at 30 µg

Secondary

HRP conjugated goat anti-mouse at 1/5000 dilution

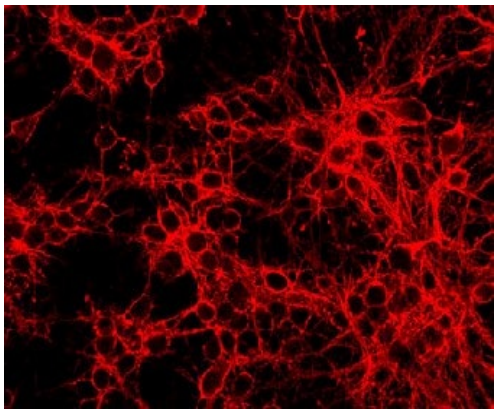
Performed under reducing conditions.

Predicted band size: 297 kDa

Observed band size: 250 kDa

Exposure time: 3 minutes

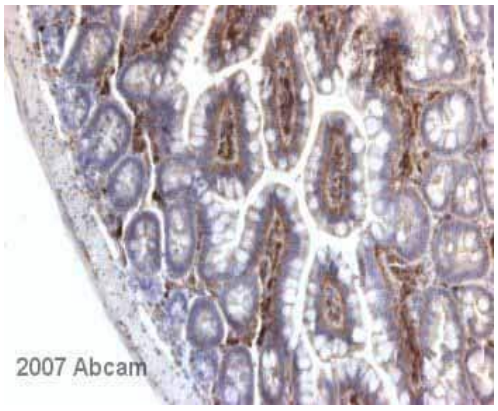
This image was generated using the ascites version of the product.



Immunocytochemistry - Anti-NEAS antibody [D8B7] (ab11755)

IF using ab11755.

This image was generated using the ascites version of the product.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NEAS antibody [D8B7] (ab11755)

This image is courtesy of an anonymous Abreview

ab11755 at 1/100 staining mouse gut (small bowel) tissue sections by IHC-P. The tissue was paraformaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed before the tissue was blocked and incubated with the antibody for 45 minutes. An HRP conjugated goat anti-mouse antibody was used as the secondary.

This image was generated using the ascites version of the product.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors