

Anti-NCS1 antibody [EPR7699] - BSA and Azide free ab248324

リコンビナント **RabMAb**

画像数 9

製品の概要

製品名	Anti-NCS1 antibody [EPR7699] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR7699] to NCS1 - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), IHC-P, WB
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse and Rat brain tissue, U-87 MG, SH-SY5Y, A549, 293T and Human fetal brain tissue lysates. Flow Cyt (Intra): SH-SY5Y cells. IHC-P: Human brain, Human cerebrum, Mouse cerebrum and Rat cerebrum tissues.
特記事項	<p>ab248324 is the carrier-free version of ab129166.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR7699
アイソタイプ	IgG

アプリケーション

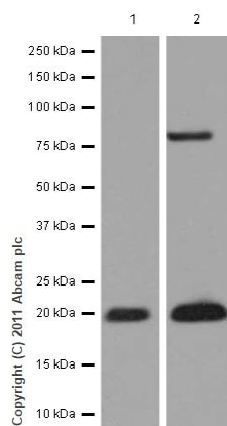
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab248324の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		1/10000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Non-specific staining on human kidney, thyroid, and smooth muscle; mouse and rat kidney, liver, and smooth muscle.
WB		Use at an assay dependent concentration. Predicted molecular weight: 22 kDa.

ターゲット情報

機能	Neuronal calcium sensor, regulator of G protein-coupled receptor phosphorylation in a calcium dependent manner. Directly regulates GRK1 (RHOK), but not GRK2 to GRK5. Can substitute for calmodulin (By similarity). Stimulates PI4KB kinase activity (By similarity). Involved in long-term synaptic plasticity through its interaction with PICK1 (By similarity). May also play a role in neuron differentiation through inhibition of the activity of N-type voltage-gated calcium channel.
配列類似性	Belongs to the recoverin family. Contains 4 EF-hand domains.
細胞内局在	Golgi apparatus > Golgi stack membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cytoplasm > perinuclear region. Cell membrane. Associated with Golgi stacks. Post-synaptic densities of dendrites, and in the pre-synaptic nerve terminal at neuromuscular junctions.

画像



Western blot - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

All lanes : Anti-NCS1 antibody [EPR7699] ([ab129166](#)) at 1/5000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

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: 22 kDa

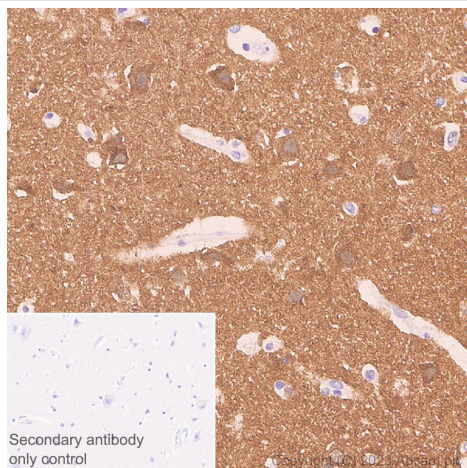
Observed band size: 21 kDa

Exposure time: 180 seconds

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM/TBST

This data was developed using [ab129166](#), the same antibody clone in a different buffer formulation.

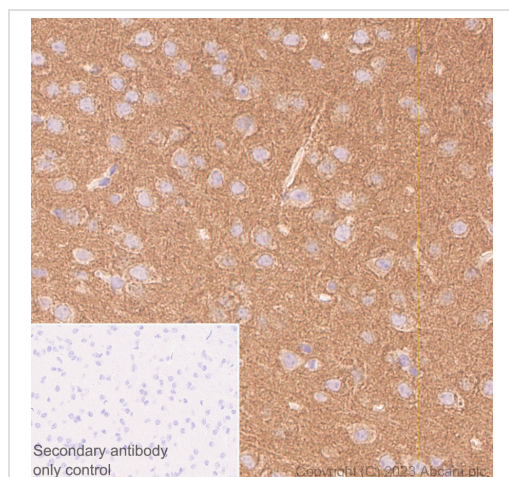


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labelling NCS1 with ab248324 at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on human cerebrum. The section was incubated with ab248324 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

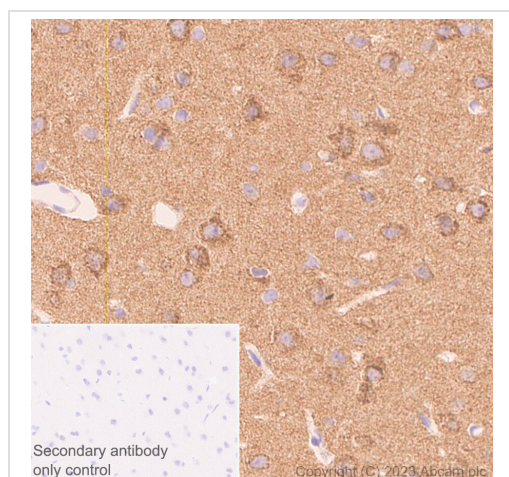


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labelling NCS1 with ab248324 at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on mouse cerebrum. The section was incubated with ab248324 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

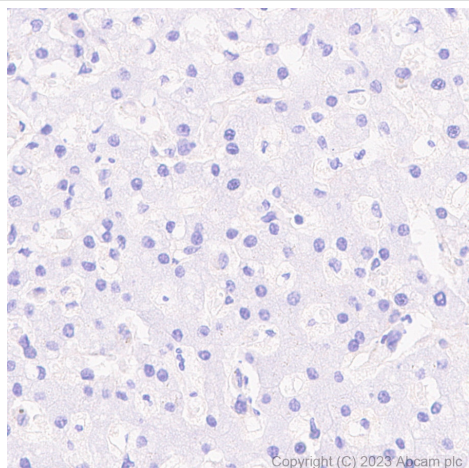


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labelling NCS1 with ab248324 at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on rat cerebrum. The section was incubated with ab248324 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

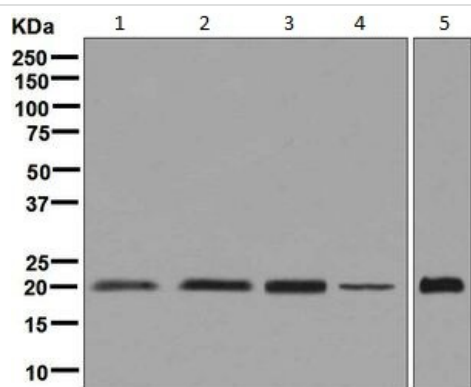


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

Immunohistochemical analysis of paraffin-embedded human liver tissue labelling NCS1 with ab248324 at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution.

Negative control: no staining on human liver. The section was incubated with ab248324 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Incubate slides with 3% Hydrogen Peroxide for 10 mins at room temperature after secondary antibody incubation to reduce the background. Counterstained with hematoxylin.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Western blot - Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

All lanes : Anti-NCS1 antibody [EPR7699] ([ab129166](#)) at 1/1000 dilution

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

Lane 2 : SH-SY5Y cell lysate

Lane 3 : A549 cell lysate

Lane 4 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lane 5 : Fetal brain tissue lysate

Lysates/proteins at 10 µg per lane.

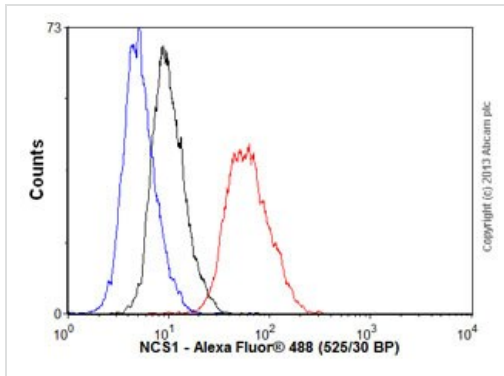
Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 22 kDa

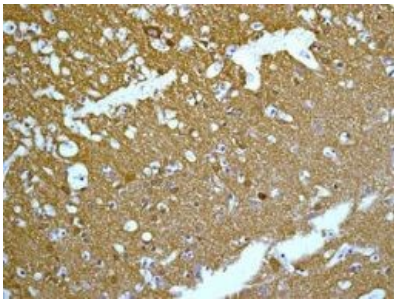
This data was developed using [ab129166](#), the same antibody

clone in a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-NCS1 antibody
[EPR7699] - BSA and Azide free (ab248324)

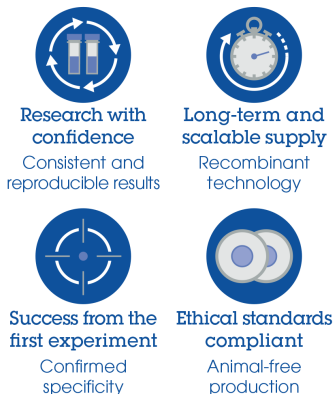
This data was developed using [ab129166](#), the same antibody clone in a different buffer formulation. Overlay histogram showing SH-SY5Y cells stained with [ab129166](#) (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody ([ab129166](#), 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) ([ab150077](#)) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCS1 antibody
[EPR7699] - BSA and Azide free (ab248324)

This data was developed using [ab129166](#), the same antibody clone in a different buffer formulation. [ab129165](#), at 1/250 dilution staining NCS1 in paraffin-embedded Human brain tissue, by Immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Anti-NCS1 antibody [EPR7699] - BSA and Azide free (ab248324)

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

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