

### Anti-NCS1 antibody [EPR7699] ab129166

リコンビナント **RabMAb**

★★★★★ **2 Abreviews** **3 References** 画像数 9

#### 製品の概要

製品名	Anti-NCS1 antibody [EPR7699]
製品の詳細	Rabbit monoclonal [EPR7699] to NCS1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human NCS1 aa 150-250 (C terminal). The exact sequence is proprietary.
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>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
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lgG

アプリケーション

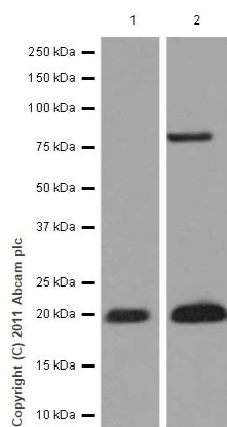
The Abpromise guarantee      Abpromise保証は、次のテスト済みアプリケーションにおけるab129166の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/100 - 1/1000. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 22 kDa.
IHC-P		1/250 - 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.

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] (ab129166)

**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

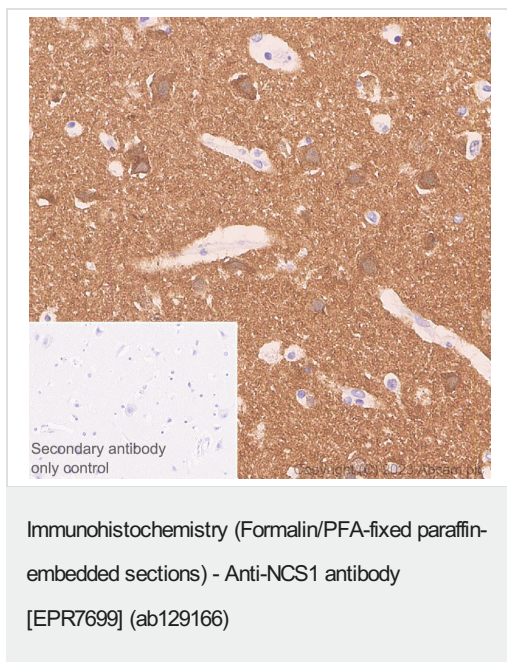
**Predicted band size:** 22 kDa

**Observed band size:** 21 kDa

**Exposure time:** 180 seconds

**Blocking buffer and concentration:** 5% NFDM/TBST

**Diluting buffer and concentration:** 5% NFDM/TBST

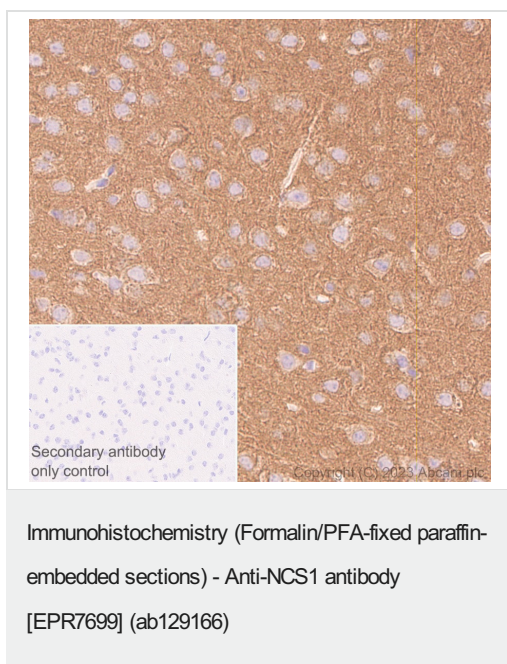


Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labelling NCS1 with [ab248324](#) at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on human cerebrum. The section was incubated with [ab248324](#) 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.

This data was developed using [ab248324](#), the same antibody clone in a different buffer formulation.

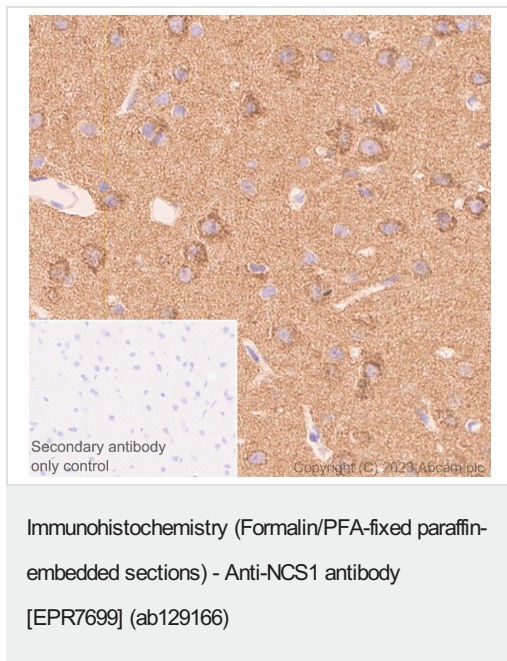


Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labelling NCS1 with [ab248324](#) at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on mouse cerebrum. The section was incubated with [ab248324](#) 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.

This data was developed using [ab248324](#), the same antibody clone in a different buffer formulation.

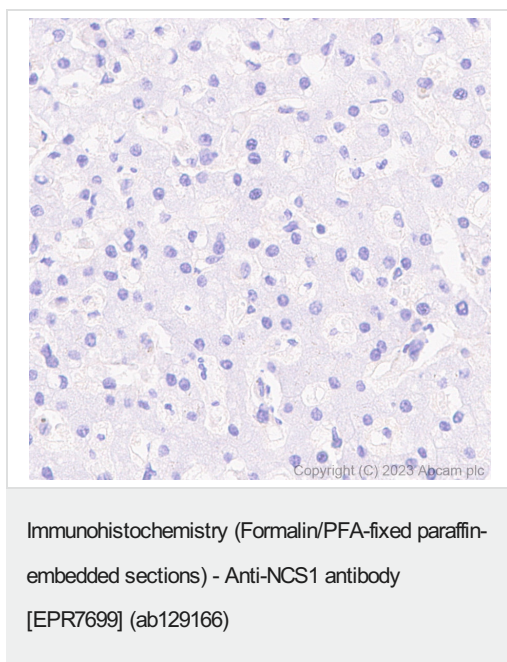


Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labelling NCS1 with **ab248324** at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution. Positive staining on rat cerebrum. The section was incubated with **ab248324** 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.

This data was developed using **ab248324**, the same antibody clone in a different buffer formulation.

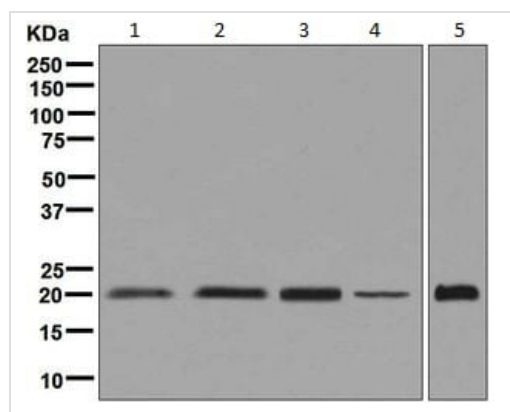


Immunohistochemical analysis of paraffin-embedded human liver tissue labelling NCS1 with **ab248324** at 1/10000 (0.101 µg/ml) dilution followed by a LeicaDS9800 (Bond™ Polymer Refine Detection) at a ready to use dilution.

**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.

This data was developed using **ab248324**, the same antibody clone in a different buffer formulation.



Western blot - Anti-NCS1 antibody [EPR7699] (ab129166)

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

**Lane 1 :** U-87 MG cell lysates

**Lane 2 :** SH-SY5Y cell lysates

**Lane 3 :** A549 cell lysates

**Lane 4 :** 293T cell lysates

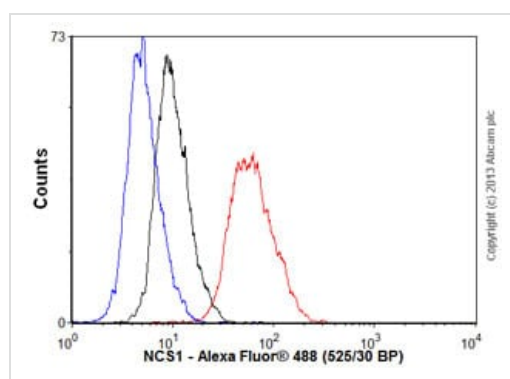
**Lane 5 :** Fetal brain tissue lysates

Lysates/proteins at 10 µg per lane.

### Secondary

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

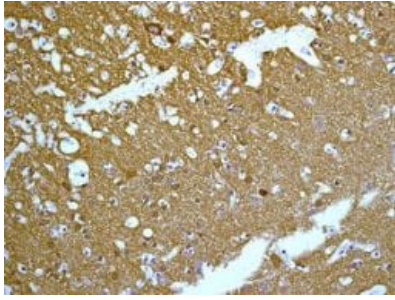
**Predicted band size:** 22 kDa



Flow Cytometry (Intracellular) - Anti-NCS1 antibody [EPR7699] (ab129166)

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) (0.1µg/1x10<sup>6</sup> 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] (ab129166)

**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?



**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-NCS1 antibody [EPR7699] (ab129166)

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

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