

Anti-CAPON/NOS1AP antibody [EPR14519(B)] ab190686

Recombinant **RabMAb**

[3 References](#) [6 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-CAPON/NOS1AP antibody [EPR14519(B)] |
| Description | Rabbit monoclonal [EPR14519(B)] to CAPON/NOS1AP |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt (Intra), ICC/IF, WB |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | Human fetal brain, Human cerebellum, Mouse brain and Rat brain lysates: MCF-7, HeLa, C6, Raw 264.7, PC-12 and NIH/3T3 cell lysates: SH-SY5Y and HeLa cells. |
| General notes | <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> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | <p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p> |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR14519(B) |
| Isotype | IgG |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab190686 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 |
|------------------|-----------|--|
| Flow Cyt (Intra) | | 1/130. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| ICC/IF | | 1/50. |
| WB | | 1/1000 - 1/10000. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa). |

Target

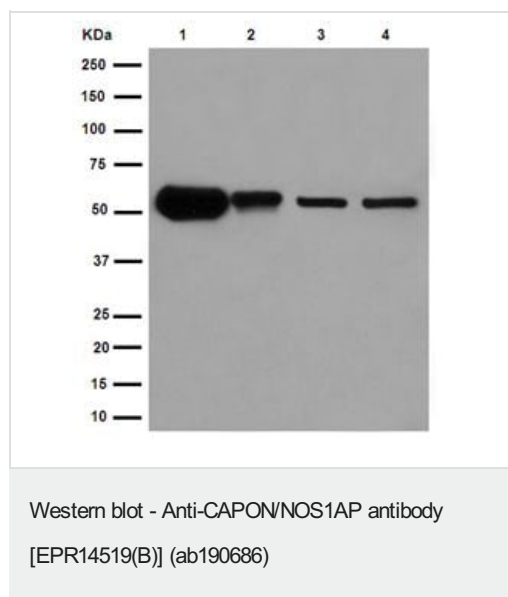
Function

Adapter protein involved in neuronal nitric-oxide (NO) synthesis regulation via its association with nNOS/NOS1. The complex formed with NOS1 and synapsins is necessary for specific NO and synapsin functions at a presynaptic level. Mediates an indirect interaction between NOS1 and RASD1 leading to enhance the ability of NOS1 to activate RASD1. Competes with DLG4 for interaction with NOS1, possibly affecting NOS1 activity by regulating the interaction between NOS1 and DLG4.

Sequence similarities

Contains 1 PID domain.

Images



All lanes : Anti-CAPON/NOS1AP antibody [EPR14519(B)]
(ab190686) at 1/1000 dilution

Lane 1 : Human fetal brain lysates

Lane 2 : Human cerebellum brain lysates

Lane 3 : MCF-7 cell lysates

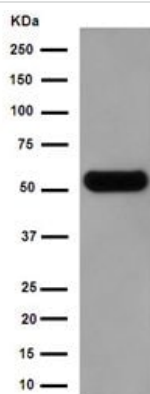
Lane 4 : HeLa cell lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 56 kDa



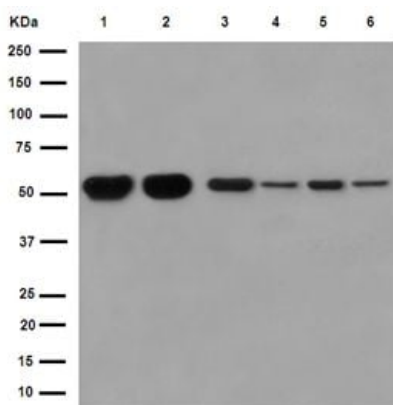
Western blot - Anti-CAPON/NOS1AP antibody
[EPR14519(B)] (ab190686)

Anti-CAPON/NOS1AP antibody [EPR14519(B)] (ab190686) at
1/10000 dilution + Human fetal brain lysates at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 56 kDa



Western blot - Anti-CAPON/NOS1AP antibody
[EPR14519(B)] (ab190686)

All lanes : Anti-CAPON/NOS1AP antibody [EPR14519(B)]
(ab190686) at 1/1000 dilution

Lane 1 : Mouse brain lysates

Lane 2 : Rat brain lysates

Lane 3 : C6 cell lysates

Lane 4 : Raw 264.7 cell lysates

Lane 5 : PC-12 cell lysates

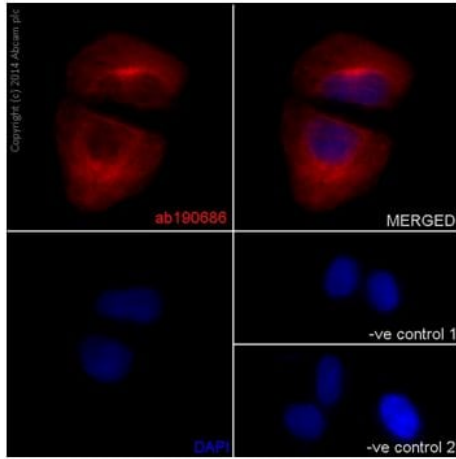
Lane 6 : NIH/3T3 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

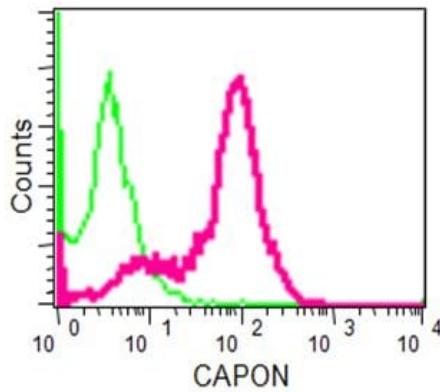
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 56 kDa



Immunocytochemistry/ Immunofluorescence - Anti-CAPON/NOS1AP antibody [EPR14519(B)] (ab190686)

Immunofluorescence analysis of 4% paraformaldehyde-fixed SH-SY5Y cells labeling CAPON/NOS1AP with ab190686 at 1/50 dilution. Goat anti-rabbit IgG (Alexa Fluor® 555) at 1/200 dilution was used as the secondary antibody (red). Slide is counter stained with Dapi (blue).



Flow Cytometry (Intracellular) - Anti-CAPON/NOS1AP antibody [EPR14519(B)] (ab190686)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed HeLa cells labeling CAPON/NOS1AP with ab190686 at 1/130 dilution (red) compared with a rabbit monoclonal IgG control (green). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.

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-CAPON/NOS1AP antibody [EPR14519(B)]
(ab190686)

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