


### Anti-nNOS (neuronal) antibody [EP1855Y] ab76067

**重组** RabMAb

★★★★★ **10 Abreviews** **63 References** **10 图像**

#### 概述

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 产品名称  | Anti-nNOS (neuronal)抗体[EP1855Y]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 描述    | 兔单克隆抗体[EP1855Y] to nNOS (neuronal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 宿主    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 经测试应用 | <b>适用于:</b> Flow Cyt (Intra), WB, IP, ICC/IF<br><b>不适用于:</b> IHC-P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 种属反应性 | <b>与反应:</b> Mouse, Rat<br><b>预测可用于:</b> Human, Common marmoset                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 免疫原   | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 阳性对照  | WB: Mouse brain tissue lysate. ICC/IF: PC-12 cells. Flow Cyt (intra): PC-12 cells. IP: Rat brain tissue lysate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 常规说明  | <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> |

#### 性能

|      |                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------|
| 形式   | Liquid                                                                                                                  |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| 存储溶液 | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA                          |
| 纯度   | Protein A purified                                                                                                      |
| 克隆   | 单克隆                                                                                                                     |

克隆编号 EP1855Y

同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab76067于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

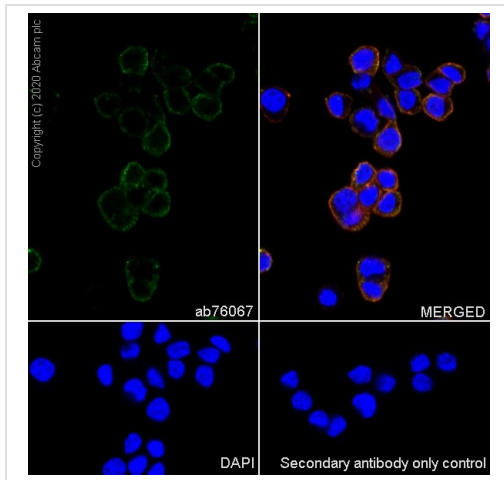
| 应用               | Ab评论      | 说明                                                                                                                                           |
|------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Flow Cyt (Intra) |           | 1/600.<br>For unpurified use at 1/15. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| WB               | ★★★★★ (6) | 1/1000 - 1/2000. Predicted molecular weight: 161 kDa.<br><b>For unpurified use at 1/100.</b>                                                 |
| IP               |           | 1/150. <b>For unpurified use at 1/4.</b>                                                                                                     |
| ICC/IF           | ★★★★★ (1) | 1/200.                                                                                                                                       |

应用说明 Is unsuitable for IHC-P.

靶标

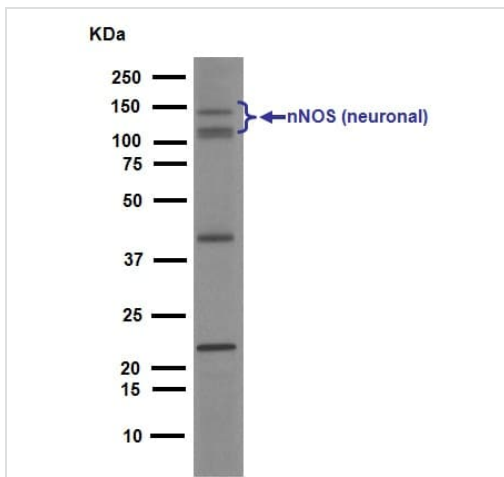
|       |                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 功能    | Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR.                                                             |
| 组织特异性 | Isoform 1 is ubiquitously expressed: detected in skeletal muscle and brain, also in testis, lung and kidney, and at low levels in heart, adrenal gland and retina. Not detected in the platelets. Isoform 3 is expressed only in testis. Isoform 4 is detected in testis, skeletal muscle, lung, and kidney, at low levels in the brain, but not in the heart and adrenal gland. |
| 序列相似性 | Belongs to the NOS family.<br>Contains 1 FAD-binding FR-type domain.<br>Contains 1 flavodoxin-like domain.<br>Contains 1 PDZ (DHR) domain.                                                                                                                                                                                                                                       |
| 结构域   | The PDZ domain in the N-terminal part of the neuronal isoform participates in protein-protein interaction, and is responsible for targeting nNos to synaptic membranes in muscles. Mediates interaction with VAC14.                                                                                                                                                              |
| 翻译后修饰 | Ubiquitinated; mediated by STUB1/CHIP in the presence of Hsp70 and Hsp40 (in vitro).                                                                                                                                                                                                                                                                                             |
| 细胞定位  | Cell membrane > sarcolemma. Cell projection > dendritic spine. In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex. In neurons, enriched in dendritic spines.                                                                                                                         |

图片



Immunocytochemistry/ Immunofluorescence - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

Immunocytochemistry analysis of PC-12 cells labelling nNOS (neuronal) (green) with purified ab76067 at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counterstained with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red). Nuclear DNA was labelled with DAPI (blue).



Western blot - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067) at 1/100 dilution (unpurified) + Mouse brain tissue lysate at 10 µg

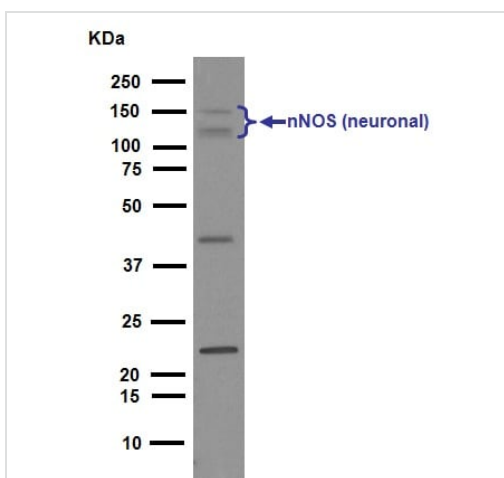
#### Secondary

Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 161 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067) at 1/3000 dilution (purified) + Mouse brain tissue lysate at 10 µg

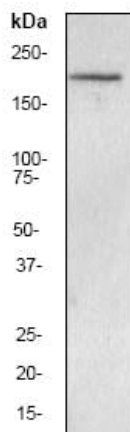
#### Secondary

Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 161 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

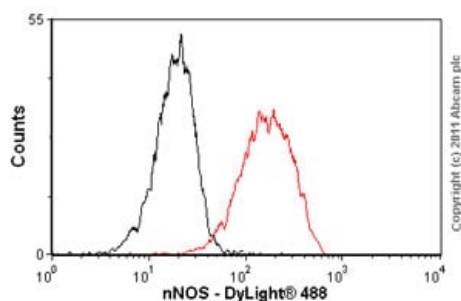
Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067) at 1/1000 dilution (unpurified) + Mouse brain tissue lysate at 10 µg

## Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

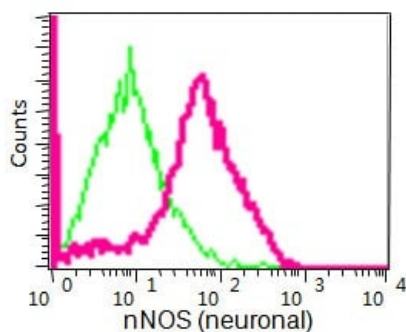
**Predicted band size:** 161 kDa

**Observed band size:** 161 kDa



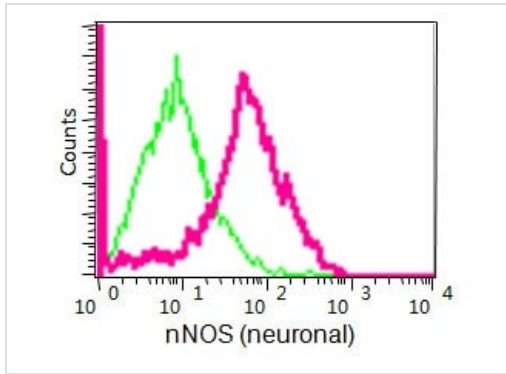
Flow Cytometry (Intracellular) - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

Overlay histogram showing PC-12 cells stained with unpurified ab76067 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (unpurified ab76067, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a slightly decreased signal in PC-12 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions. Please note that Abcam do not have any data for use of this antibody in non-fixed cells. We welcome any customer feedback.



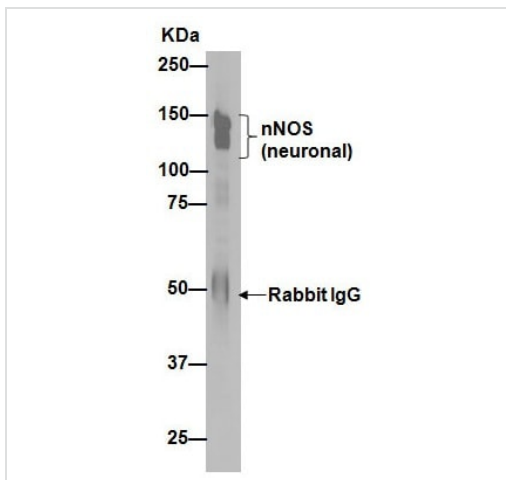
Flow Cytometry (Intracellular) - Anti-nNOS (neuronal) antibody [EP1855Y] (ab76067)

Intracellular Flow Cytometry analysis of PC-12 cells labelling nNos (neuronal) with unpurified ab76067 at 1/15 (red). Cells were fixed with 100% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Green - Isotype control, rabbit monoclonal IgG.



Flow Cytometry (Intracellular) - Anti-nNOS (neuronal)  
antibody [EP1855Y] (ab76067)

Intracellular Flow Cytometry analysis of PC-12 cells labelling nNos (neuronal) with purified ab76067 at 1/600 (red). Cells were fixed with 100% methanol. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Green - Isotype control, rabbit monoclonal IgG.

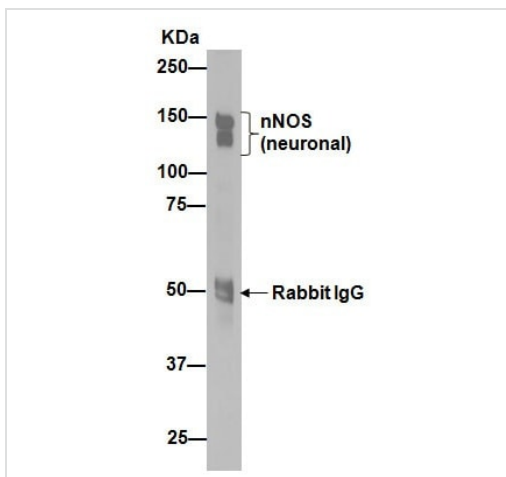


Immunoprecipitation - Anti-nNOS (neuronal) antibody  
[EP1855Y] (ab76067)

ab76067 (unpurified) at 1/4 immunoprecipitating nNOS (neuronal) in rat brain tissue lysate. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Immunoprecipitation - Anti-nNOS (neuronal) antibody  
[EP1855Y] (ab76067)

ab76067 (purified) at 1/150 immunoprecipitating nNOS (neuronal) in rat brain tissue lysate. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

### 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-nNOS (neuronal) antibody [EP1855Y] (ab76067)

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