abcam

Product datasheet

Anti-nNOS (neuronal) (phospho S847) antibody ab16650

★★★★★ 4 Abreviews 15 References 4 图像

概述

产品名称	Anti-nNOS (neuronal) (phospho S847)抗体
描述	兔多克隆抗体to nNOS (neuronal) (phospho S847)
宿主	Rabbit
特异性	This antibody shows a reduction in signal when blocked with unmodified nNOS (neuronal) peptide in WB, however when tested in ELISA, it showed less than 2% cross reactivity with the unmodified protein.
经测试应用	**适用于:** IHC-FoFr, WB
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Rabbit, Xenopus laevis, Zebrafish, Apteronotus leptorhynchus
免疫原	Synthetic peptide conjugated to KLH derived from within residues 800 - 900 of Mouse nNOS (neuronal), phosphorylated at S847. 参阅Abcam的专有抗源政策 (Peptide available as **ab16981**.)
常规说明	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

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab16650于以下的经测试应用**

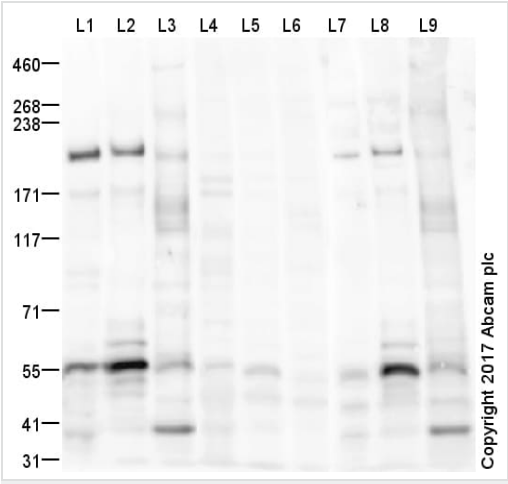
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-FoFr	★★★★★ (1)	1/3000.
WB	★★★★☆ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 160 kDa (predicted molecular weight: 160 kDa).

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. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain. 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



Western blot - Anti-nNOS (neuronal) (phospho S847) antibody (ab16650)

All lanes : Anti-nNOS (neuronal) (phospho S847) antibody (ab16650) at 1 µg/ml

Lane 1 : Forebrain (Mouse) Tissue Lysate
Lane 2 : Spinal Cord (Mouse) Tissue Lysate
Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (negative control)
Lane 4 : Forebrain (Mouse) Tissue Lysate with Mouse nNOS (neuronal) (phospho S847) peptide at 1 µg/ml
Lane 5 : Spinal Cord (Mouse) Tissue Lysate with Mouse nNOS (neuronal) (phospho S847) peptide at 1 µg/ml
Lane 6 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (negative control) with Mouse nNOS (neuronal) (phospho S847) peptide at 1 µg/ml
Lane 7 : Forebrain (Mouse) Tissue Lysate with Mouse nNOS (neuronal) (unmodified) peptide at 1 µg/ml
Lane 8 : Spinal Cord (Mouse) Tissue Lysate with Mouse nNOS (neuronal) (unmodified) peptide at 1 µg/ml
Lane 9 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (negative control) with Mouse nNOS (neuronal) (unmodified) peptide at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

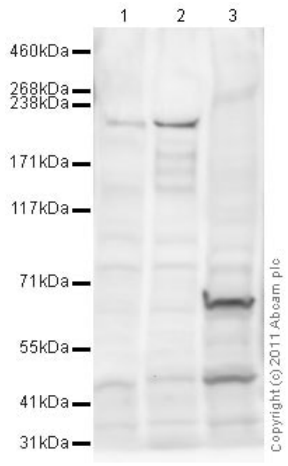
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 160 kDa
Observed band size: 190 kDa
Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 4 minutes

This blot was produced using a 3-8% Tris Acetate gel under the TA buffer system. The gel was run at 150V for 60 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab16650 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



Western blot - Anti-nNOS (neuronal) (phospho S847) antibody (ab16650)

All lanes : Anti-nNOS (neuronal) (phospho S847) antibody (ab16650) at 1 µg/ml

Lane 1 : Forebrain (Mouse) Tissue Lysate
Lane 2 : Spinal Cord (Mouse) Tissue Lysate
Lane 3 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate (negative control)

Lysates/proteins at 20 µg per lane.

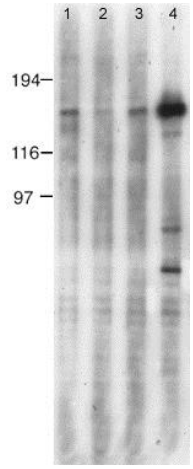
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 160 kDa
Observed band size: 190 kDa

Exposure time: 2 minutes



Western blot - Anti-nNOS (neuronal) (phospho S847) antibody (ab16650)

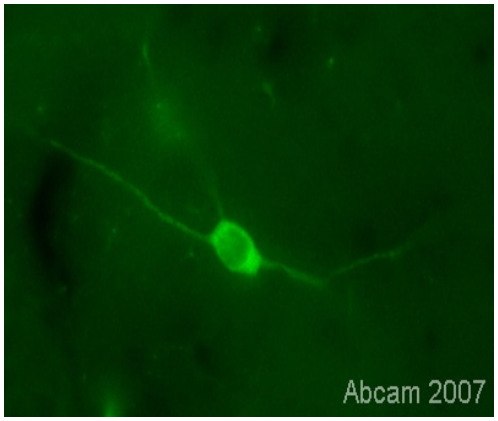
This image is courtesy of Chris Anderson, Wellcome Trust Sanger Institute, United Kingdom

Lanes 1-3 : Anti-nNOS (neuronal) (phospho S847) antibody (ab16650) at 1 µg/ml
Lane 4 : nNOS antibody at 1/2500 dilution

Lanes 1 & 4 : mouse forebrain
Lane 2 : mouse forebrain with Mouse nNOS (neuronal) (phospho S847) peptide (**ab16981**) at 1 µg/ml
Lane 3 : mouse forebrain with corresponding unmodified nNOS (neuronal) peptide at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Predicted band size: 160 kDa
Observed band size: 160 kDa



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-nNOS (neuronal) (phospho S847) antibody (ab16650)

This image is courtesy of Sophie Pezet, CNRS, Paris, France

Immunostaining using Rabbit polyclonal to nNOS (neuronal) (phospho S847) (ab16650) on rat brain tissue sections (30 micron free floating). ab16650 was used at a dilution of 1/3000 and incubated for 18 hours at RT (in PBS triton 0.3%). Secondary Antibody Goat anti-rabbit alexa Fluor 488 was used at a dilution of 1/1000. The image shows cytoplasmic staining of CNS neurons with ab16650 in naïve rats; the staining being observed in the soma and processes of these neurons. The staining was quenched by pre-incubation with peptide against phospho S847 (**ab16981**), but not by the control peptide (**ab57047**) indicating that ab16650 is specific for nNos phosphorylated at S847. Protocol: Rats were perfused-fixed with 4% paraformaldehyde. Tissues were post-fixed overnight in the same fixative and then cryoprotected in 20% sucrose overnight. Following embedding in OCT and freezing, tissues were cut and immunostained using the 'free floating' technique.

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