

Anti-nNOS (neuronal) (phospho S1417) antibody ab5583

★★★★★ **6 Abreviews** **20 References** 画像数 **2**

製品の概要

製品名	Anti-nNOS (neuronal) (phospho S1417) antibody
製品の詳細	Rabbit polyclonal to nNOS (neuronal) (phospho S1417)
由来種	Rabbit
アプリケーション	適用あり: IHC-Fr, ICC, WB, IP, ICC/IF, IHC-FoFr
種交差性	交差種: Mouse, Rat, Rabbit, Human 交差が予測される動物種: Xenopus laevis, Zebrafish 
免疫原	Synthetic peptide corresponding to Human nNOS (neuronal) aa 1411-1425 (phospho S1417). Sequence: CNRLRSE(pS)IAFIEESK Database link: <u>P29475</u> (Peptide available as <u>ab41773</u>)  <u>Run BLAST with</u>  <u>Run BLAST with</u>
ポジティブ・コントロール	WB: nocozadole-treated SH-SY5Y cells; ICC: SH-SY5Y cells
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル

アプリケーション

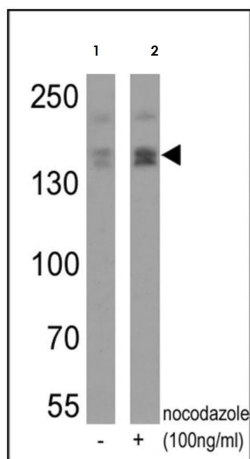
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab5583の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
WB	★★★★★ (4)	1/500 - 1/5000. Predicted molecular weight: 160 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		1/10 - 1/100.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 20881244

ターゲット情報

機能	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.
組織特異性	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.
配列類似性	Belongs to the NOS family. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain. Contains 1 PDZ (DHR) domain.
ドメイン	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.
翻訳後修飾	Ubiquitinated; mediated by STUB1/CHIP in the presence of Hsp70 and Hsp40 (in vitro).
細胞内局在	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.

画像



Western blot - Anti-nNOS (neuronal) (phospho S1417) antibody (ab5583)

All lanes : Anti-nNOS (neuronal) (phospho S1417) antibody (ab5583) at 1/1000 dilution

Lane 1 : untreated SH-SY5Y cells (Human neuroblastoma cell line from bone marrow)

Lane 2 : SH-SY5Y cells (Human neuroblastoma cell line from bone marrow) treated with 100 ng/mL nocodazole

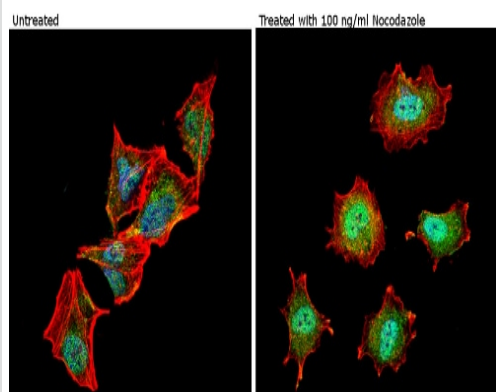
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : HRP-conjugated secondary antibody

Developed using the ECL technique.

Predicted band size: 160 kDa



Immunocytochemistry/ Immunofluorescence - Anti-nNOS (neuronal) (phospho S1417) antibody (ab5583)

Immunocytochemistry/Immunofluorescence analysis of nNOS (neuronal) (phospho S1417) (green) showing staining in the cytoplasm and nucleus of SH-SY5Y cells treated with 100 ng/ml nocodazole (left) and untreated SH-SY5Y cells (right). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with ab5583 in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

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