

## Product datasheet

# Human nNOS (neuronal) (phospho S1417) peptide ab41773

★★★★★ 1 Abreviews 1 References 1 Image

### Overview

---

**Product name** Human nNOS (neuronal) (phospho S1417) peptide

### Description

---

**Nature** Synthetic

**Amino Acid Sequence**

**Accession** [P29475](#)

**Species** Human

**Sequence** CNRLRSE(pS)IAFIEESK

**Amino acids** 1411 to 1425

**Modifications** phospho S1417

### Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab41773** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Immunohistochemistry (Frozen sections)  
Neutralising  
competitive binding assays  
Blocking - Blocking peptide for Anti-nNOS (neuronal) (phospho S1417) antibody ([ab5583](#))

**Form** Liquid

### Preparation and Storage

---

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

### General Info

---

**Function** 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.

### Tissue specificity

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.

### Sequence similarities

Belongs to the NOS family.  
Contains 1 FAD-binding FR-type domain.  
Contains 1 flavodoxin-like domain.  
Contains 1 PDZ (DHR) domain.

### Domain

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.

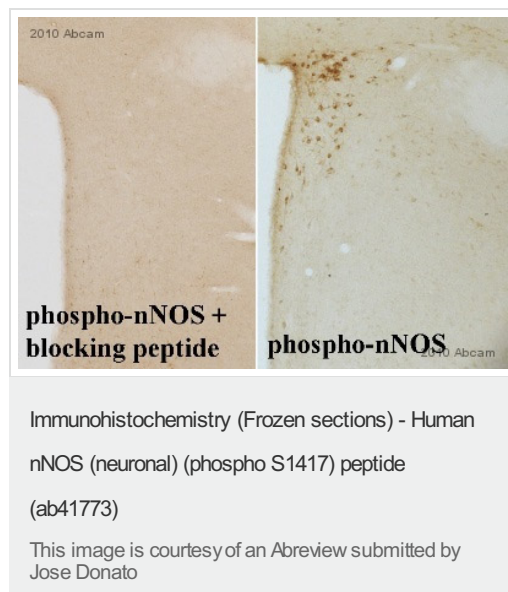
### Post-translational modifications

Ubiquitinated; mediated by STUB1/CHIP in the presence of Hsp70 and Hsp40 (in vitro).

### Cellular localization

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.

## Images



Ab41773 (at concentrations of 0.25, 0.5 and 1  $\mu\text{g/ml}$ ) blocking the labeling of phospho-nNOS S1416 by [ab5583](#) (1/500) in mouse tissue sections (paraventricular nuclei of the hypothalamus) by immunohistochemistry (frozen sections). A Biotin-conjugated donkey anti-rabbit IgG polyclonal (1/1000) was used as the secondary antibody.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors