nNOS polyclonal antibody

The diffusible free radical gas nitric oxide (NO) affects a variety of physiological functions, and is a key regulator of the cardiovascular, nervous, and immune systems. NO is synthesized in many tissues from Larginine, oxygen, and NADPH by three known isoforms of a heme-containing flavoprotein termed NO synthase (nNOS/NOS-I, iNOS/NOS-II, and eNOS/NOS-III). nNOS is a constitutively expressed neuronal NOS isoform that exits in its latent form until it is activated by the binding of calmodulin follo wing elevation of intracellular calcium levels. The C-terminus of nNOS contains a conserved serine residue, Ser1417, analogous to Ser1177 of the constitutively expressed endothelial NOS isoform (eNOS). Phosphorylation of Ser1417 is believed to regulate nNOS activation, particularly in glucose-sensing neurons, where inhibition of AMPK pathways by glucose and leptin serve to suppress nNOS activity, whereas activation of AMPK by insulin leads to nNOS activation.

This antibody is covered by our Worry-Free Guarantee.

Citations: 6

View Online »

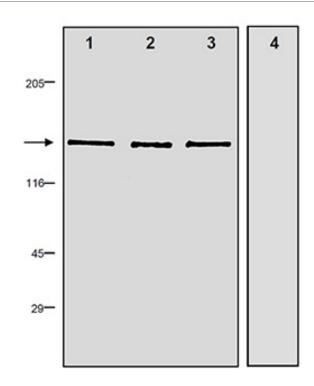
Ordering Information

Order Online »

BML-SA227-0025	25µg
BML-SA227-0100	100μg

Manuals, SDS & CofA

View Online »



Western blot analysis of nNOS, pAb (Prod. No. BML-SA227) using whole cell extracts from (1) rat brain (BML-SW103), (2) mouse brain (Prod. No. BML-SW104), and (3,4) 10 ng recombinant rat bNOS (Prod. No. BML-SW109). In lane (4) the antibody was preincubated with Prod. No. BML-SP227 blocking control peptide. The nitrocellulose membrane was probed with Prod. No. BML-SA227 at 5 µg/ml. The secondary antibody was GAR-AP diluted 1/2000 and the blot was developed with BCIP/NBT.

Handling & Storage

Handling Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.

Long Term Storage -20°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name Nitric oxide synthase (neuronal), NOS I

Application ELISA, ICC, IF, WB

Formulation Liquid. In PBS containing 0.05% sodium azide.

Host Rabbit

Immunogen Synthetic peptide corresponding to aa 1414-1434

(CRSESIAFIEESKKDTDEVFSS) of human brain NOS

(nNOS; NOS1).

Purity Detail Protein A-affinity purified.

Recommendation Dilutions/ConditionsWestern Blot (1-5 μg/ml)Suggested dilutions/conditions

may not be available for all applications. Optimal conditions

must be determined individually for each application.

Source Purified from rabbit serum.

Species Reactivity Chicken, Human, Mouse, Rat

UniProt ID P29475

Worry-free Guarantee This antibody is covered by our Worry-Free Guarantee

