

Rabbit anti-Mouse, Rat nNOS Polyclonal Antibody | anti-nNOS antibody

nNOS polyclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77016	Rabbit	Mouse, Rat	Western Blot, Immunohistochemistry, Immunohistochemistry

PRODUCT SYNONYMS

nNOS; Polyclonal Antibody; nNOS polyclonal antibody; Nitric oxide synthase (neuronal); NOS I; pAb; anti-nNOS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Specificity	Recognizes mouse and rat nNOS. Detects a band of ~155kDa by Western blot.
Purity/Purification	Protein A affinity purified.
Form/Format	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Sequence Length	1434
Applicable Applications for anti-nNOS antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Immunogen	Synthetic peptide corresponding to the sequence near the C-terminus of human nNOS.
Preparation and Storage	Long Term: -20 degree C Avoid freeze/thaw cycles.

IMAGES


IHC (Immunohistochemistry)

IHC Analysis: Human brain, cortex tissue stained with nNOS, pAb at 20µg/ml.


WB (Western Blot)

Western blot analysis: Lane 1: MW marker, Lane 2: Rat Brain, Lane 3: Mouse Brain.

ADDITIONAL INFORMATION

Related Product Information for anti-nNOS 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 L-arginine, 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 exists in its latent form until it is activated by the binding of calmodulin following 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.
Product Categories/Family for anti-nNOS antibody	Cell Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	1709333
NCBI GeneID	4842
UniProt Accession #	P29475; O75713; E9PH30
Molecular Weight	164,779 Da
NCBI Official Full Name	Nitric oxide synthase, brain
NCBI Official Synonym Full Names	nitric oxide synthase 1
NCBI Official Symbol	NOS1
NCBI Official Synonym Symbols	NOS; bNOS; nNOS; IHPS1; N-NOS; NC-NOS
NCBI Protein Information	nitric oxide synthase, brain
UniProt Protein Name	Nitric oxide synthase, brain
UniProt Gene Name	NOS1
UniProt Synonym Gene Names	N-NOS; nNOS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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