

NOS1 Antibody

Catalog No: #32287

Package Size: #32287-1 50ul #32287-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

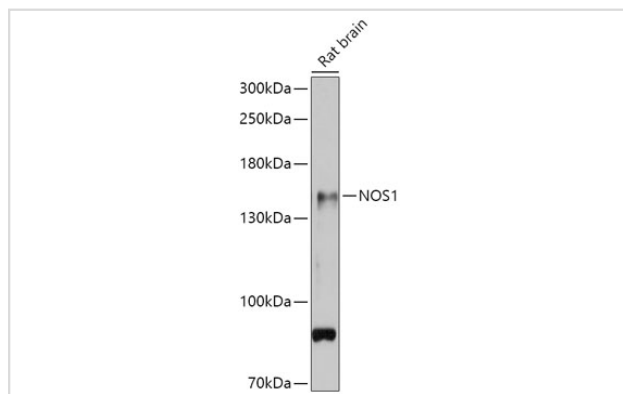
Description

Product Name	NOS1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Mouse;Rat
Specificity	The antibody detects endogenous level of total NOS1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant Protein of human NOS1.
Conjugates	Unconjugated
Target Name	NOS1
Other Names	NOS1; IHPS1; N-NOS; NC-NOS; NOS
Accession No.	Swiss-Prot:P29475NCBI Gene ID:4842
SDS-PAGE MW	160KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

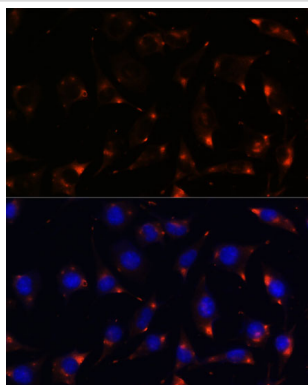
Application Details

WB 1:500 - 1:2000IF 1:20 - 1:50

Images



Western blot analysis of extracts of Rat brain, using NOS1 antibody at 1:500 dilution.



Immunofluorescence analysis of L929 cells using NOS1 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

Nitric Oxide Synthase (NOS) catalyses the formation of nitric oxide (NO) and citrulline from L-arginine, oxygen and cofactors. Three family members have been characterized: neuronal NOS (nNOS), which is found primarily in neuronal tissue; inducible NOS (iNOS), which is induced by interferon gamma and lipopolysaccharides in the kidney and cardiovascular system; and endothelial NOS (eNOS), which is expressed in blood vessels (1). NO is a messenger molecule with diverse functions throughout the body including the maintenance of vascular integrity, homeostasis, synaptic plasticity, long-term potentiation, learning, and memory (2,3).

nNOS binds selectively to the second PDZ domain of PSD-95, and the enzymatic activity of nNOS is either downregulated by phosphorylation at Ser847 by CaM-KII or stimulated by calcium influxes governed by the NMDA receptor channels (4-5).

Published Papers

el at., Aerobic Exercise Inhibits Sympathetic Nerve Sprouting and Restores $\epsilon^{\alpha}\gamma$ -Adrenergic Receptor Balance in Rats with Myocardial Infarction. In PLoS One. On 2014 by Ting Chen, Meng-Xin Cai et al.. PMID:24842290, , (2014)

[PMID:24842290](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.