Product Datasheet

NOS1 Antibody

Catalog No: #32287

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

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

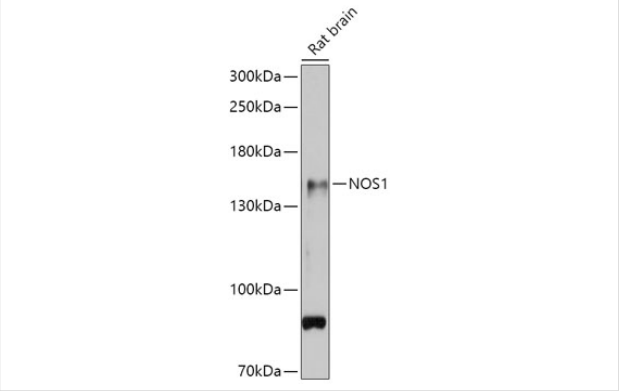
Description

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.
Target Name	NOS1
Other Names	NOS1; IHPS1; N-NOS; NC-NOS; NOS
Accession No.	Swiss-Prot:P29475NCBI Gene ID:4842
Uniprot	P29475
GeneID	4842;
SDS-PAGE MW	160KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

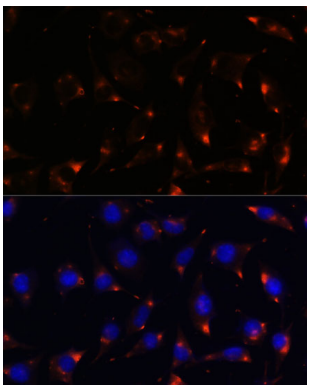
Application Details

WB□1:500 - 1:2000IF□1:20 - 1:50

Images



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



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

Background

Nitric Oxide Synthase (NOS) catalyses the formation of nitric oxide (NO) and citruline 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).

Note: This product is for in vitro research use only