

NOS1

Reactivity: Human Mouse Rat

Tested applications: WB IHC IP

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200 IP 1:20 - 1:50

Calculated MW: 160kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant Protein of human NOS1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

1µg

Synonym:

NOS1; iNOS; N-NOS; NC-NOS; NOS; Bnos; nNOS

Catalog #: A1485

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 4842

Isotype: IgG

Swiss Prot: P29475

Purity: Affinity purification

For research use only.

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).

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