
Anti-eNOS

Cat #: HM1253
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide synthases (NOSs), the enzymes responsible for synthesis of NO, contain an N-terminal oxygenase domain and a C-terminal reductase domain. NOS activity requires homodimerization as well as three cosubstrates (L-arginine, NADPH and O₂) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetra-hydrobiopterin and heme). Several distinct NOS isoforms have been described and been shown to represent the products of three distinct genes. These include two constitutive Ca⁺⁺/CaM-dependent forms of NOS, including ncNOS (also designated NOS1) whose activity was first identified in neurons, and ecNOS (also designated NOS3), first identified in endothelial cells. The inducible form of NOS, iNOS (also designated NOS2), is Ca⁺⁺-independent, and expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines.

SPECIFICITY

This antibody reacts with NOS3 (ecNOS) of mouse, rat and human. Non cross-reactive with NOS1 (ncNOS) or NOS2 (iNOS). It can be used in Western blotting, immunoprecipitation and immunohistochemistry (including paraffin embedded sections);

Molecular Weight of NOS3: 145 kDa. Western blotting positive control: mouse brain extract.

IMMUNOGEN

A peptide mapping at the carboxy terminus of human NOS3.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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