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NOS3

Reactivity: Human Mouse Rat

Tested applications:WB IHC

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

Calculated MW:133kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human NOS3

Storage Buffer:

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

Concentration:

a

Synonym:

eNOS; ECNOS;

Catalog #:A1548

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:4846

Isotype: IgG

Swiss Prot:P29474

Purity: Affinity purification

For research use only.

Background:

Endothelial nitric-oxide synthase (eNOS) is an important enzyme in the cardiovascular system. It catalyzes the production of nitric oxide (NO), a key regulator of blood pressure, vascular remodeling, and angiogenesis (1,2). The activity of eNOS is regulated by phosphorylation at multiple sites. The two most thoroughly studied sites are the activation site Ser1177 and the inhibitory site Thr495 (3). Several protein kinases including Akt/PKB, PKA, and AMPK activate eNOS by phosphorylating Ser1177 in response to various stimuli (4,5). In contrast, bradykinin and H2O2 activate eNOS activity by promoting both Ser1177 phosphorylation and Thr495 dephosphorylation (6,7). eNOS is activated by VEGF, and this activation is associated with dephsophorylation of eNOS at serine 113. Cyclosporin A blocks this dephosphorylation of eNOS upon VEGF stimulation (8).

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