eNOS Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

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 hydrogen peroxide activate eNOS activity by promoting Thr495 dephosphorylation (6,7).

Specificity/Sensitivity: eNOS Antibody detects endogenous levels of total eNOS protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Ser600 of human eNOS. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

Applications Species Cross-Reactivity* Molecular Wt. Source
W Endogenous H, B, Pg, (M, R, Dg) 140 kDa Rabbit**

Western blot analysis of extracts from bovine aortic endothelial cells, untreated or VEGF-treated, and PAE cells, untreated or UV-treated using eNOS Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Recommended Antibody Dilutions:
Western Blotting 1:1000

Applications Key:
W—Western
IP—Immunoprecipitation
IHC—Immunohistochemistry
ChIP—Chromatin Immunoprecipitation
IF—Immunofluorescence
F—Flow cytometry
E-P—ELISA-Peptide

Species Cross-Reactivity Key:
H—human
M—mouse
R—rat
Hm—hamster
Mk—monkey
Mc—mice
C—chicken
Dm—D. melanogaster
X—Xenopus
Z—zebrafish
B—bovine
Dg—dog
Pg—pig
Sc—S. cerevisiae
Ce—C. elegans
Hr—horse
All—all species expected

Species enclosed in parentheses are predicted to react based on 100% homology.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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