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eNOS Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10311

Specification

eNOS Antibody - Product Information

Application	**WB**
Primary Accession	Q62600
Other Accession	EDL99377
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**133290**

eNOS Antibody - Additional Information

Gene ID 24600

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. The antibody recognizes 140 kDa eNOS of human, mouse, and rat origins. Reactivity to other species has not been tested.**

Other Names
NOS3 , cNOS , ECNOS , EC-NOS , NOSIII

Target/Specificity
eNOS

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
eNOS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

eNOS Antibody - Protein Information

Name Nos3 {ECO:0000312|RGD:3186}

Function
Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.

Cellular Location
Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. Cell membrane. Note=Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle, which is favored by interaction with NOSIP and results in a reduced enzymatic activity

Tissue Location
Expressed constitutively by vascular endothelium. Detected in alveolar and serosal epithelial cells as well as in endothelial cells in one day old rat. In adult lung, detected in rare endothelial cells

eNOS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

eNOS Antibody - Images

eNOS Antibody - Background

eNOS (Endothelial nitric-oxide synthase) is an important enzyme in the cardiovascular system. eNOS is regulated by phosphorylation at multiple sites. The two most thoro μghly studied sites are the activation site Ser1177 and the inhibitory site Thr495. Several protein kinases including Akt/PKB, PKA and AMPK activate eNOS by phosphorylating Ser1177 in response to various stimuli. In contrast, bradykinin and hydrogen peroxide activate eNOS activity by promoting Thr495 dephosphorylation.