

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 Cytometry](#)
- [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 thoroughly 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.