

39-2130: Polyclonal Antibody to Anti-eNOS Antibody(Discontinued)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	NOS3
Gene ID :	4846
Uniprot ID :	P29474
Alternative Name :	Nitric oxide synthase, endothelial; 1.14.13.39; Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; N
Isotype :	Rabbit IgG

Description

NOS3(Nitric Oxide Synthase 3), also called eNOS, a nitric oxide synthase that generates NO in blood vessels and is involved with regulating vascular tone by inhibiting smooth muscle contraction and platelet aggregation. The NOS3 gene is mapped on 7q36.1. Variations in this gene are associated with susceptibility to coronary spasm. Fulton et al.(1999) concluded the eNOS is an AKT substrate linking signal transduction by AKT to the release of the gaseous second messenger nitric oxide. AKT mediates the activation of eNOS, leading to increased nitric oxide production. Inhibition of the PI3K AKT pathway or mutation of the AKT site on eNOS protein at serine-1177 attenuated the serine phosphorylation and prevented the activation of eNOS. RT-PCR analysis showed that expression of NOS3 in human umbilical vein endothelial cells(HUVECs) and human aortic vascular smooth muscle cells(HAOVSMCs) was inversely proportional to that of NOS3AS.

Product Info

Amount :	100 µg/vial
Purification :	Immunogen affinity purified.
Content :	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . Reconstitute : Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage condition :	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.1-0.5µg/ml; Immunohistochemistry(Paraffin-embedded Section) : 0.5-1µg/ml

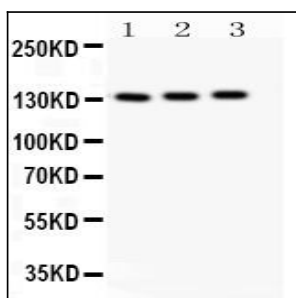


Figure 1: Anti-eNOS antibody(39-2130). Western blotting: Lanes: Anti eNOS at 0.5ug/ml, Lane 1: HELA Whole Cell Lysate at 40ug, Lane 2: HEPG2 Whole Cell Lysate at 40ug , Lane 3: COLO320 Whole Cell Lysate at 40ug. Predicted band size: 133 kDa; Observed band size: 133 kDa.