

Product datasheet for **BP659S**

eNOS (NOS3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	This antiserum has been characterized by Western blotting, ELISA, and cell staining techniques using synthetic peptides and recombinant whole proteins. Suitable for Immunocytochemical and Western Immunoblotting detection of eNOS. This antiserum has been found to stain fixed cultured cells known to express hcnNOS by indirect Immunofluorescence at dilutions of 1/400. Western Immunoblots using homogenates from cells expressing hiNOS resulted in a single band being detected at ~135 kDa at a dilution of 1/800.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	eNOS (2-11 Cys12) covalently attached to a carrier protein
Specificity:	Specific for the amino terminal of eNOS. It recognizes the non-myristylated form best, but does cross-react ~50% with the myristylated form of eNOS. Also recognizes Rat eNOS. <u>Cross-reactivity:</u> eNOS (2-11 Cys12): 100% Recombinant eNOS (NOS type III): 100% eNOS (cap-2-11Cys12): 50% Recombinant myristylated eNOS (myristylated NOS type III): 0% Recombinant hnNOS (NOS type I): 0% Recombinant hiNOS (NOS type II): 0%
Formulation:	State: Azide Free State: Lyophilized Neat Serum.
Reconstitution Method:	Restore with 0.1 ml of PBS which contains 10 mg/ml BSA or with additional buffer for more dilute antibody.
Conjugation:	Unconjugated



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Storage:	Store the lyophilized antibody at 2-8°C and reconstituted in aliquots at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	nitric oxide synthase 3
Database Link:	Entrez Gene 4846 Human P29474
Background:	<p>Nitric oxide synthase NOS oxidizes a guanidine nitrogen of arginine releasing nitric oxide in the form of a free radical and citrulline. Nitric oxide thus generated acts as a messenger in diverse functions including vasodilation neurotransmission, anti tumor and anti pathogenic activities. NOS is classified under three types: neuronal NOS (nNOS) or brain NOS (bNOS); inducible NOS (iNOS) or macrophage NOS (mNOS); and endothelial NOS (eNOS). eNOS is a calcium/calmodulin dependent enzyme which undergoes several post translational modifications, including acylation with myristate and palmitate, and phosphorylation on numerous residues. As with the other members of the NOS family, eNOS derives the diffusible multifunctional second messenger NO from L arginine through a series of reactions in which L citrulline is an intermediate. eNOS plays an important role in controlling vascular tone, platelet aggregation, and cardiac myocyte function.</p>
Synonyms:	Endothelial NOS, EC-NOS, NOS type III, Constitutive NOS, eNOS