## **eNOS Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	<b>Reactivity:</b> H B Pg	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	Source/Isotype: Rabbit	UniProt ID: #P29474	Entrez-Gene Id: 4846
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		eNOS Antibody detects endogenous levels of total eNOS protein.				
Species predicted to react based on 100% sequence homology		Dog				
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		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 H <sub>2</sub> O <sub>2</sub> activate eNOS activity by promoting both Ser1177 phosphorylation and Thr495 dephosphorylation (6,7).				
Background References		1. Fulton, D. et al. (2001) <i>J Pharmacol Exp Ther</i> 299, 818-24. 2. Shaul, P.W. (2002) <i>Annu Rev Physiol</i> 64, 749-74. 3. Chen, Z.P. et al. (1999) <i>FEBS Lett</i> 443, 285-9. 4. Dimmeler, S. et al. (1999) <i>Nature</i> 399, 601-5. 5. Fulton, D. et al. (1999) <i>Nature</i> 399, 597-601. 6. Harris, M.B. et al. (2001) <i>J Biol Chem</i> 276, 16587-91. 7. Thomas, S.R. et al. (2002) <i>J Biol Chem</i> 277, 6017-24.				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting

Cross-Reactivity Key

H: Human B: Bovine Pg: Pig

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