## 98567

## eNOS (49G3) Rabbit mAb



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<b>Applications:</b> W, IP	<b>Reactivity:</b> H B	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit IgG1	UniProt ID: #P29474	Entrez-Gene Id: 4846
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		eNOS (49G3) Rabbit mAb detects endogenous levels of total eNOS protein.				
Species predic based on 100% homology	ted to react sequence	Dog				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu604 of human eNOS protein.				
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		<ol> <li>Fulton, D. et al. (2001) J Pharmacol Exp Ther 299, 818-24.</li> <li>Shaul, P.W. (2002) Annu Rev Physiol 64, 749-74.</li> <li>Chen, Z.P. et al. (1999) FEBS Lett 443, 285-9.</li> <li>Dimmeler, S. et al. (1999) Nature 399, 601-5.</li> <li>Fulton, D. et al. (1999) Nature 399, 597-601.</li> <li>Harris, M.B. et al. (2001) J Biol Chem 276, 16587-91.</li> <li>Thomas, S.R. et al. (2002) J Biol Chem 277, 6017-24.</li> </ol>				

**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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

**H:** Human **B:** Bovine

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