

**Limited Uses** 

## Phospho-eNOS (Ser1177) (C9C3) Rabbit



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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H B Pg	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P29474	Entrez-Gene Id: 4846	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation		<b>Dilution</b> 1:1000 1:25			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
		For a carrier free (BSA and azide free) version of this product see product #55112.					
Specificity/Sensitivity		Phospho-eNOS (Ser1177) (C9C3) Rabbit mAb detects endogenous levels of eNOS only when phosphorylated at Ser1177.					
Species predic based on 100% homology		Mouse, Rat					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1177 of human eNOS.					
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 $\rm H_2O_2$ 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>					
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Species Reactivity		Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer			ORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 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 Pg: Pig					
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