Store at -200

## Phospho-eNOS (Ser1177) Antibody



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Applications: WB	Reactivity: H B Pg	Sensitivity: Endogenous	<b>MW (kDa):</b> 140	Source: Rabbit	<b>UniProt ID:</b> #P29474	Entrez-Gene Id 4846
Product Usage Information	Ар	plication			Dilution	
	We	estern Blotting			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 / Sens		Phospho-eNOS (Ser1177) Antibody detects endogenous levels of eNOS only when phosphorylated at Ser1177.				
Species predicte react based on 1 sequence homol	.00%	use, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1177 of human eNOS. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	the ang	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				

**Background References** 

- 1. Fulton, D. et al. (2001) J Pharmacol Exp Ther 299, 818-24.
- 2. Shaul, P.W. (2002) Annu Rev Physiol 64, 749-74.

phosphorylation and Thr495 dephosphorylation (6,7).

- 3. Chen, Z.P. et al. (1999) FEBS Lett 443, 285-9.
- 4. Dimmeler, S. et al. (1999) Nature 399, 601-5.
- 5. Fulton, D. et al. (1999) Nature 399, 597-601.
- 6. Harris, M.B. et al. (2001) J Biol Chem 276, 16587-91.
- 7. Thomas, S.R. et al. (2002) J Biol Chem 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.

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

**Applications Key** 

WB: Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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