-9575 Store at -20C

Phospho-eNOS (Ser113) Antibody

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Applications: WB	Reactivity: H B	Sensitivity: Endogenous	MW (kDa): 140	Source: Rabbit	UniProt ID: #P29474	Entrez-Gene Id: 4846	
Product Usage Information		pplication /estern Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensi		Phospho-eNOS (Ser113) Antibody detects endogenous levels of eNOS only when phosphorylated at serine 113.					
Source / Purificati	to	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser113 of human eNOS. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	the an tho kir va ph eN	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 ₂ O ₂ activate eNOS activity by promoting both Ser1177 phosphorylation and Thr495 dephosphorylation (6,7). eNOS is activated by VEGF, and this activation is associated with dephsophorylation of eNOS at serine 113. Cyclosporin A blocks this dephosphorylation of eNOS upon VEGF stimulation (8).					
Background Refer	2. 3. 4. 5. 6. 7.	 Fulton, D. et al. (2001) J Pharmacol Exp Ther 299, 818-24. Shaul, P.W. (2002) Annu Rev Physiol 64, 749-74. Chen, Z.P. et al. (1999) FEBS Lett 443, 285-9. Dimmeler, S. et al. (1999) Nature 399, 601-5. Fulton, D. et al. (1999) Nature 399, 597-601. Harris, M.B. et al. (2001) J Biol Chem 276, 16587-91. Thomas, S.R. et al. (2002) J Biol Chem 277, 6017-24. Kou, R. et al. (2002) J Biol. Chem. 277(33) , 29669-29673. 					
Species Reactivity	y Spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buff	••	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	WE	WB: Western Blotting					
Cross-Reactivity F	X: >	 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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Phospho-eNOS (Ser113) Antibody (#9575) Datasheet Without Images Cell Signaling Technology

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