Phospho-eNOS (Ser1177) Antibody





Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H B Pg	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #P29474	Entrez-Gene Id: 4846		
Product Usage Information		Application Western 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/Sensitivity		Phospho-eNOS (Ser1177) Antibody detects endogenous levels of eNOS only when phosphorylated at Ser1177.						
Species predicted to react based on 100% sequence homology		Mouse, Rat						
Source / Purifica	ation	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		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_2O_2 activate eNOS activity by promoting both Ser1177 phosphorylation and Thr495 dephosphorylation (6,7).						
Background Ref	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. 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 Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	ıffer	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 Ke	у	W: Western Blotting						
Cross-Reactivity	/ Key	H: Human B: Bovine Pg: Pig						
Trademarks and Patents Cell Signaling Technology			logy is a trademark of Cell Signaling Technology, Inc.					
		All other trademarks a more information.	re the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for		
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.						

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.