Store at -20C	nNOS Antibody	T C	Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
34		Support:	877-678-TECH (8324)		
#4234		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane   Danvers	Massachusetts   01923   USA		

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

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 160	Source: Rabbit	UniProt ID: #P29475	Entrez-Gene Id: 4842		
Product Usage Information	• •	plication stern 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 / Sensit	ivity nNC	nNOS Antibody detects endogenous levels of total nNOS protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human nNOS. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Nitric Oxide Synthase (NOS) catalyzes the formation of nitric oxide (NO) and citrulline from L-arginine, oxygen, and cofactors. Three family members have been characterized: neuronal NOS (nNOS), which is found primarily in neuronal tissue; inducible NOS (iNOS), which is induced by interferon gamma and lipopolysaccharides in the kidney and cardiovascular system; and endothelial NOS (eNOS), which is expressed in blood vessels (1). NO is a messenger molecule with diverse functions throughout the body, including the maintenance of vascular integrity, homeostasis, synaptic plasticity, long-term potentiation, learning, and memory (2,3).						
	dow	,	phorylation at Ser8	,	and the enzymatic activ mulated by calcium influ	,		
Background Refere	2. So 3. Ha 4. W	sutsui, M. (2004) <i>J A</i> on, H. et al. (1996) ( awkins, R.D. (1996) /atanabe, Y. et al. (2 ears, C.E. et al. (200	Cell 87, 1015-23. Neuron 16, 465-7 003) Biochem J 37		359, 1021-44.			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffe		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	WB:	Western Blotting						
Cross-Reactivity K	- X: Xe	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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nNOS Antibody (#4234) Datasheet Without Images Cell Signaling Technology

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