

#2977 Store at -20C

NOS (pan) Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M	Endogenous	130, 140, 160	Rabbit	#P29477	18126

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	NOS (pan) Antibody detects endogenous levels of total eNOS, iNOS and nNOS protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Ser1000 of human iNOS. 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).	
Background References	1. Tsutsui, M. (2004) <i>J Atheroscler Thromb</i> 11, 41-8. 2. Son, H. et al. (1996) <i>Cell</i> 87, 1015-23. 3. Hawkins, R.D. (1996) <i>Neuron</i> 16, 465-7.	

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.
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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