





nNOS Polyclonal Antibody

Catalog Number PA1-038 Product data sheet

Details		Species Reactivity
Size	100 μL	Species reactivity
Host/Isotope	Rabbit / IgG	Published species
Class	Polyclonal	Tested Applications
Туре	Antibody	Western Blot (WB)
Immunogen	Synthetic peptide corresponding to residues I(237) Q V D R D L D G K S H K A(250) of rat nNOS.	Published Applications Western Blot (WB)
Conjugate	Unconjugated	Immunohistochemistry (II
Form	Liquid	* Suggested working dilutions are given as a guide experiment using appropriate negative and positive
Concentration	1 mg/mL	experiment using appropriate negative and positive
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles	

openies reactivity	T COL	
Published species	Rat, Mouse	
Tested Applications	Dilution *	
Western Blot (WB)	1:100	
Published Applications		
Western Blot (WB)	See 5 publications below	
Immunohistochemistry (IHC)	See 1 publications below	

e controls.

PA1-038 detects recombinant rat brain nitric oxide synthase (nNOS) overexpressed in E. coli. This antibody does not to detect iNOS or eNOS. PA1-038 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~155 kDa protein representing recombinant rat nNOS protein overexpressed in E. coli. The PA1-038 immunogen is a synthetic peptide corresponding to residues I(237) Q V D R D L D G K S H K A(250) of rat nNOS.

Background/Target Information

NOS activity requires homodimerization as well as three cosubstrates (L-arginine, NADPH and O2) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetrahydrobiopterin and heme). Several distinct NOS isoforms have been described and been shown to represent the products of three distinct genes. These include two constitutive Ca2+/CaM-dependent forms of NOS, including NOS1 (also designated ncNOS) whose activity was first identified in neurons, and NOS3 (also designated ecNOS), first identified in endothelial cells.

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Product specific information

5 Western Blot Referen	ces	
Species / Dilution	Summary	
	PA1-038 was used in western blot to investigate the distribution of nitric-oxide synthase mu in differentiated skeletal muscle	
Rat / 1:250	The Journal of biological chemistry (1996; 271: 11204) "Neuronal nitric-oxide synthase-mu, an alternatively spliced isoform expressed in differentiated skeletal muscle. Author(s):Silvagno F,Xia H,Bredt DS PubMed Article URL:http://dx.doi.org/10.1074/jbc.271.19.11204	
Rat / 1:1000	PA1-038 was used in western blot to study gender differences in constitutive NOS expression and activity in pressure overloaded rats	
	American journal of physiology. Heart and circulatory physiology (2007; 293: H2650) "Effects of sex differences on constitutive nitric oxide synthase expression and activity in response to pressure overload in rats." Author(s):Loyer X,Oliviero P,Damy T,Robidel E,Marotte F,Heymes C,Samuel JL PubMed Article URL:http://dx.doi.org/10.1152/ajpheart.00883.2007	
Rat / 1:500	PA1-038 was used in western blot to study the role of NOS-1-derived NO in the altered contractile response due to increased beta3-adrenoceptor stimulation in diabetic cardiomyopathy	
	Anesthesiology (2007; 107: 452) "Altered contractile response due to increased beta3-adrenoceptor stimulation in diabetic cardiomyopathy: the role of nitric oxide synthase 1-derived nitric oxide." Author(s):Amour J,Loyer X,Le Guen M,Mabrouk N,David JS,Camors E,Carusio N,Vivien B,Andriantsitohaina R,Heymes Riou B PubMed Article URL:http://dx.doi.org/10.1097/01.anes.0000278909.40408.24	
Rat / 1:5,000	PA1-038 was used in western blot to investigate the characteristics of nitric oxide synthase in vivo	
	Nature (1991; 351: 714) "Cloned and expressed nitric oxide synthase structurally resembles cytochrome P-450 reductase." Author(s):Bredt DS,Hwang PM,Glatt CE,Lowenstein C,Reed RR,Snyder SH PubMed Article URL:http://dx.doi.org/10.1038/351714a0	
Rat / 1:1000	PA1-038 was used in western blot to study levels of protein kinase C and NOS activity in brain regions of rats exposed to sub chronic low level lead	
	Molecular and cellular biochemistry (2001; 223: 27) "Levels of protein kinase C and nitric oxide synthase activity in rats exposed to sub chronic low level lead." Author(s):Ramesh GT,Jadhav AL PubMed Article URL:http://dx.doi.org/10.1023/a:1017549003114	
1 Immunohistochemist	ry References	
Species / Dilution	Summary	
Mouse / Not Cited	PA1-038 was used in immunohistochemistry to review the role of reactive nitrogen and oxygen species in airway inflammation	
	European journal of pharmacology (2001; 429: 251) "Reactive nitrogen and oxygen species in airway inflammation." Author(s):Folkerts G,Kloek J,Muijsers RB,Nijkamp FP PubMed Article URL:http://dx.doi.org/10.1016/s0014-2999(01)01324-3	

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