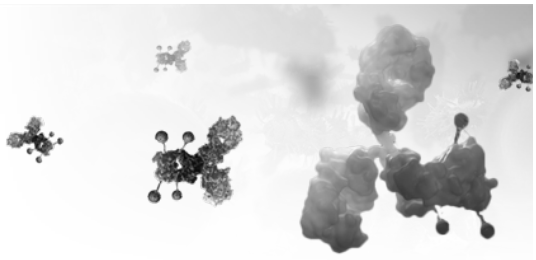

Anti-NOS1 (aa 1041-1150) polyclonal antibody (DPAB-DC2041)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5 UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.[provided by RefSeq, Feb 2011]
Immunogen	NOS1 (NP_000611, 1041 a.a. ~ 1150 a.a) partial recombinant protein with GST tag. The sequence is FPGNHEDLVNALIERLEDAPPVNQMVKVELLEERNTALGVISNWTDELRLPPCTIFQAFK YYLDITTPPTPLQLQQFASLATSEKEKQRLLVLSKGLQEYEEWKWGKNPT
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	NOS1 nitric oxide synthase 1 (neuronal) [Homo sapiens (human)]
Official Symbol	NOS1
Synonyms	NOS1; nitric oxide synthase 1 (neuronal); NOS; bNOS; nNOS; IHPS1; N-NOS; NC-NOS; nitric oxide synthase, brain; NOS type I; neuronal NOS; constitutive NOS; peptidyl-cysteine S-nitrosylase NOS1;
Entrez Gene ID	4842
Protein Refseq	NP_000611
UniProt ID	A0PJJ7
Chromosome Location	12q24.22
Pathway	Alzheimers disease; Amyotrophic lateral sclerosis (ALS); Calcium signaling pathway; Disease
Function	FMN binding; NADP binding; NADPH-hemoprotein reductase activity; arginine binding

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