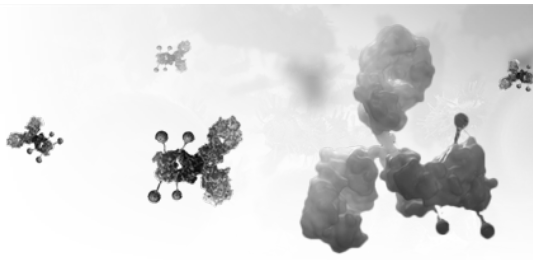

Human NOS1 blocking peptide (CDBP2069)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-NOS1 antibody
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]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	NOS1 nitric oxide synthase 1 (neuronal) [Homo sapiens]

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Official Symbol	NOS1
Synonyms	NOS1; nitric oxide synthase 1 (neuronal); NOS; nitric oxide synthase, brain; nNOS; NOS type I; neuronal NOS; constitutive NOS; peptidyl-cysteine S-nitrosylase NOS1; bNOS; IHPS1; N-NOS; NC-NOS;
Entrez Gene ID	4842
mRNA Refseq	NM_000620
Protein Refseq	NP_000611
UniProt ID	P29475
Chromosome Location	12q14-qter
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Calcium signaling pathway, organism-specific biosystem;
Function	FMN binding; NADP binding; arginine binding; cadmium ion binding; calmodulin binding; flavin adenine dinucleotide binding; heme binding; metal ion binding; nitric-oxide synthase activity; nitric-oxide synthase activity; oxidoreductase activity; protein bi

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