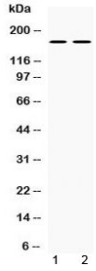
NOS1 Antibody / nNOS (R32707)

Catalog No.	Formulation	Size
R32707	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Predicted Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P29475
Applications	WB: 0.5-1ug/ml
Limitations	This NOS1 antibody is available for research use only.



Western blot testing of 1) rat brain and 2) mouse brain lysate with NOS1 antibody at 0.5ug/ml. Predicted molecular weight ~160 kDa.

Description

Nitric oxide synthase 1 (neuronal), also known as NOS1, is an enzyme that in humans is encoded by the NOS1 gene. 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.

Application Notes

Optimal dilution of the NOS1 antibody should be determined by the researcher.

Immunogen

Amino acids 1402-1434 (VTLRTYEVTNRLRSESIAFIEESKKDTDEVFSS) from the human protein were used as the immunogen for the NOS1 antibody.

Storage

After reconstitution, the NOS1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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