

Basic Information

Product Name	Anti-nNOS/NOS1 Antibody
Gene Name	NOS1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human nNOS(neuronal) (1402-1434aa VTLRTYEVTNRLRSESI AFIEESKKDTDEVFSS), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	161KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Selected Validation Data



Figure 1. Western blot analysis of nNOS using anti-nNOS antibody (A01070). lane 1: rat brain tissue lysates, lane 2: mouse brain tissue lysates. anti-nNOS antigen affinity purified polyclonal antibody (Catalog # A01070) probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for nNOS at approximately 160KD. The expected band size for nNOS is at 160KD.