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39-1077: Anti-Nitric Oxide Synthase, Brain(1-181) NOS1 Monoclonal Antibody (Clone: NOS-B1)

Clonality :	Monoclonal
Clone Name :	NOS-B1
Application :	WB
Reactivity :	Human
Gene :	Nos1
Gene ID :	24598
Uniprot ID :	P29476
Alternative Name :	Nitric oxide synthase, brain; 1.14.13.39; BNOS; Constitutive NOS; NC-NOS; N
Isotype :	Mouse IgG1
Immunogen Information :	Recombinant neuronal NOS fragment(amino acids 1-181) from rat brain.

Description

Nitric Oxide Synthase 1(NOS1,neuronal NOS,nNOS1) is a messenger molecule, mediating the effect of endothelium-derived relaxing factor in blood vessels and the cytotoxic actions of macrophages, and playing a part in neuronal communication in the brain. It may be involved in neuronal cell death and damage in neurological illness. nNOS1 localized to the 12q24.2 region of human chromosome 12. It splice variant, expressed in testis, that encodes an NH2-terminal truncated protein of 1098 amino acids. nNOS cDNA clones were shown to contain different 5' terminal exons spliced to a common exon 2. Genomic cloning and sequence analysis demonstrate that the unique exons are positioned within 300 bp of each other but separated from exon 2 by an intron that is at least 20 kb in length. The neuronal isoform of nitric oxide synthase is highly expressed in mammalian skeletal muscle, it suggested a specific role for NOS1 in the local metabolic inhibition of alpha-adrenergic vasoconstriction in active skeletal muscle. The novel gaseous neuromediator nitric oxide is though to play an important role in development and plasticity. Despite this, gene-knockout mice lacking neuronal(Type I) nitric oxide synthase exhibit relatively normal brain development and behavior.

Product Info

Amount :	100 µg/vial
Purification :	Ascites
Content :	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative. Reconstitute : Add 1ml of PBS buffer will yield a concentration of 100ug/ml.
Storage condition :	At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.

Application Note

Western blot : 0.5Ã‚Â¼g/ml

For Research Use Only. Not for use in diagnostic/therapeutics procedures.