Datasheet for ABIN3032000

anti-NOS1 antibody (C-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	NOS1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	An amino acid sequence from the C-terminus of nNOS (IAFIEESKKDTDEVFSS) was used as the immunogen for this nNOS antibody (100% homologous human, mouse and rat).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	NOS1
Alternative Name:	nNOS (NOS1 Products)
Background:	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

Target Details

	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.
UniProt:	P29475
Pathways:	Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction

Application Details

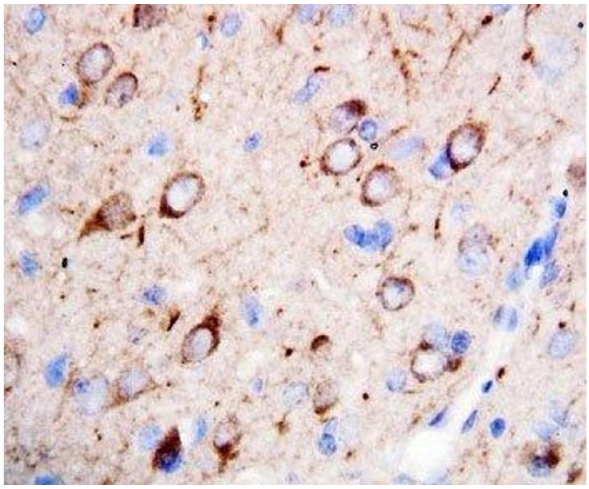
Application Notes:	The stated application concentrations are suggested starting amounts. Titration of the nNOS antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL
Restrictions:	For Research Use only

Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 °C
Storage Comment:	After reconstitution, the nNOS antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Western Blotting

Image 1. Western blot testing of nNOS antibody and Lane 1: rat brain



Immunohistochemistry

Image 2. IHC-P: nNOS antibody testing of rat brain tissue

Western Blotting

Image 3. Western blot testing of nNOS antibody and Lane 1: rat brain; 2: MCF-7; Predicted size: 160KD; Observed size: 160KD