Datasheet for ABIN350524

anti-NOS1 antibody (C-Term)

3 Images

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Overview

Quantity:	500 µg
Target:	NOS1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This NOS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic peptides from the c-terminal region of human nNOS conjugated to blue carrier protein was used as the antigen.
Isotype:	IgG
Specificity:	Specific for nNOS
Cross-Reactivity:	Guinea Pig, Human, Mouse, Rabbit, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	NOS1

Target Details

Alternative Name:	NOS1 (NOS1 Products)
Background:	FUNCTION: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Inhibitory transmitter for non-adrenergic and non-cholinergic nerves in the colorectum. CATALYTIC ACTIVITY: L-arginine + n NADPH + m O2 = citrulline + nitric oxide + n NADP+. ENZYME REGULATION: Stimulated by calcium/calmodulin. Inhibited by n-Nos-inhibiting protein (PIN) which may prevent the dimerization of the protein. Inhibited by NOSIP. SUBCELLULAR LOCATION: Cell membrane, sarcolemma, Peripheral membrane protein. Cell projection, dendritic spine. Note=In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex. In neurons, enriched in dendritic spines. TISSUE SPECIFICITY: Isoform N-NOS-1 is expressed in brain and colorectum. Found in the Auerbach's plexus of the enteric nervous system. Isoform PNNOS is expressed in the penis, urethra, prostate, and skeletal muscle, and coexists with the cerebellar nnos in the pelvic plexus, bladder and liver, and is detectable in the cerebellum.,Neurotransmission,BNOS, NOS type I, Neuronal NOS, N-NOS, nNOS, Constitutive NOS, NC-NOS, Nitric oxide synthase
UniProt:	P29476
Pathways:	Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction

Application Details

Application Notes:	IHC, WB. A concentration of 10-50 µg,ml is recommended. The optimal concentration should be determined by the end user.
Restrictions:	For Research Use only

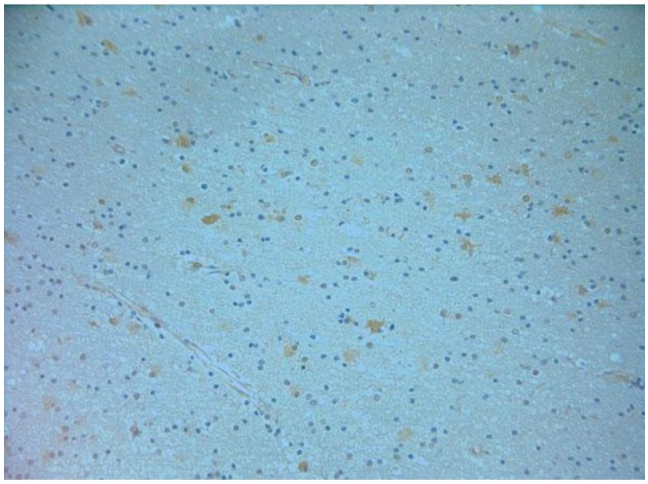
Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.

Handling

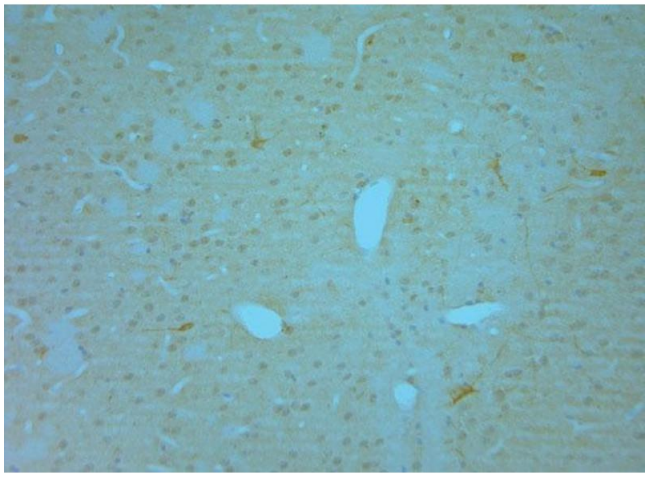
Expiry Date:	12 months

Images



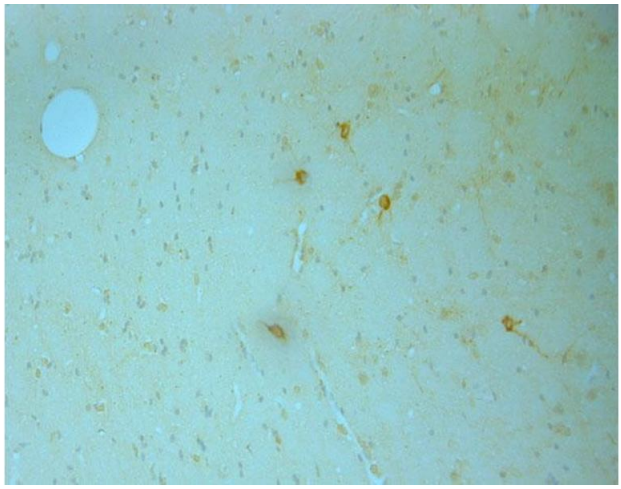
Immunohistochemistry

Image 1. IHC on paraffin sections of human brain tissue using Goat antibody to NOS1: . HIER: 1 mM EDTA, pH 8 for 20 min using Thermo PT Module. Blocking: 0.2% LFDM in TBST filtered thru 0.2 µm. Detection was done using Novolink HRP polymer from Leica following manufacturer's instructions. Primary antibody: dilution 1: 100, incubated 30 min at RT (using Autostainer). Sections were counterstained with Harris Hematoxylin.



Immunohistochemistry

Image 2. IHC on paraffin sections of mouse olfactory bulb tissue using Goat antibody to NOS1: . HIER: 1 mM EDTA, pH 8 for 20 min using Thermo PT Module. Blocking: 0.2% LFDM in TBST filtered thru 0.2 µm. Detection was done using Novolink HRP polymer from Leica following manufacturer's instructions. Primary antibody: dilution 1: 100, incubated 30 min at RT (using Autostainer). Sections were counterstained with Harris Hematoxylin.



Immunohistochemistry

Image 3. IHC on paraffin sections of mouse brain tissue using Goat antibody to NOS1: . HIER: 1 mM EDTA, pH 8 for 20 min using Thermo PT Module. Blocking: 0.2% LFDM in TBST filtered thru 0.2 µm. Detection was done using Novolink HRP polymer from Leica following manufacturer's instructions. Primary antibody: dilution 1: 100, incubated 30 min at RT (using Autostainer). Sections were counterstained with Harris Hematoxylin.