nNOS Rabbit mAb

Catalog No: #48898

Package Size: #48898-1 50ul #48898-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

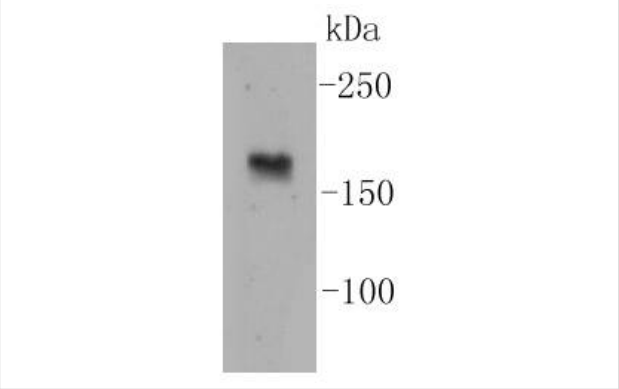
Description

Product Name	nNOS Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST520
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	2310005C01Rik antibody BNOS antibody Constitutive NOS antibody EC 1.14.13.39 antibody IHPS 1 antibody IHPS1 antibody N-NOS antibody NC-NOS antibody neuronal Nitric Oxide Synthase antibody Neuronal NOS antibody Nitric oxide synthase , neuronal, included antibody Nitric oxide synthase 1 (neuronal) antibody Nitric oxide synthase 1 antibody Nitric oxide synthase, brain antibody Nitric oxide synthase, penile neuronal, included antibody NNOS antibody NO antibody NOS 1 antibody NOS antibody NOS type I antibody NOS-I antibody NOS1 antibody NOS1_HUMAN antibody Peptidyl-cysteine S-nitrosylase NOS1 antibody
Accession No.	Swiss-Prot#:P29475
Uniprot	P29475
GeneID	4842;
Calculated MW	161 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

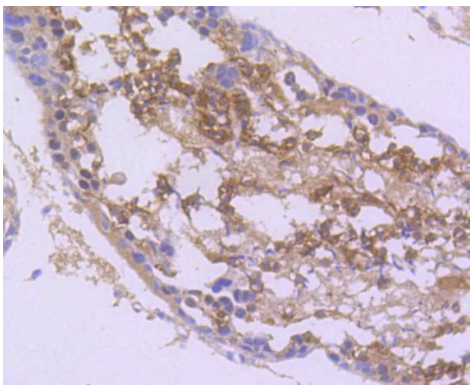
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

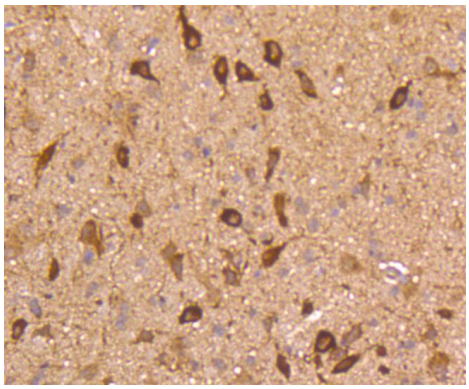
Images



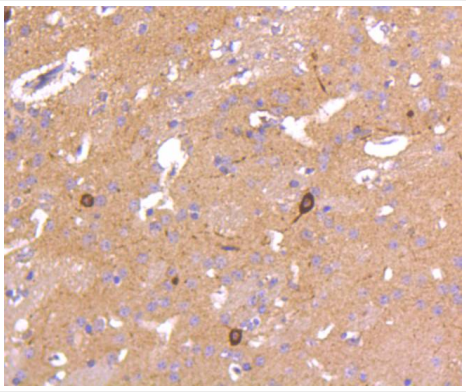
Western blot analysis of nNOS on mouse heart lysates using anti-nNOS antibody at 1/1,000 dilution.



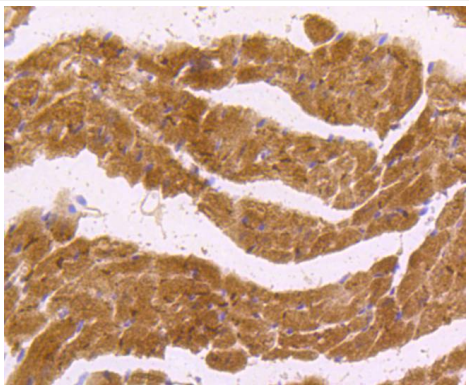
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-nNOS antibody. Counter stained with hematoxylin.



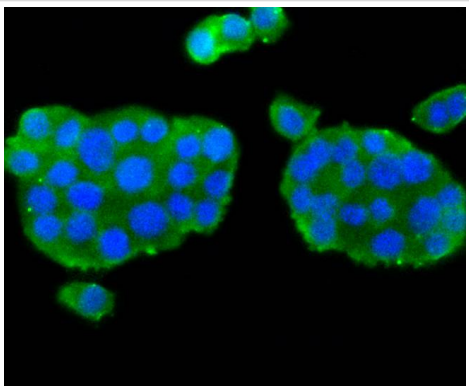
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-nNOS antibody. Counter stained with hematoxylin.



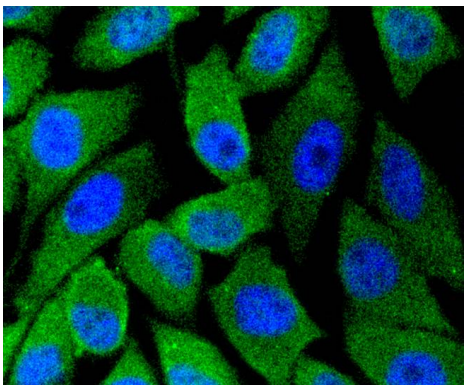
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-nNOS antibody. Counter stained with hematoxylin.



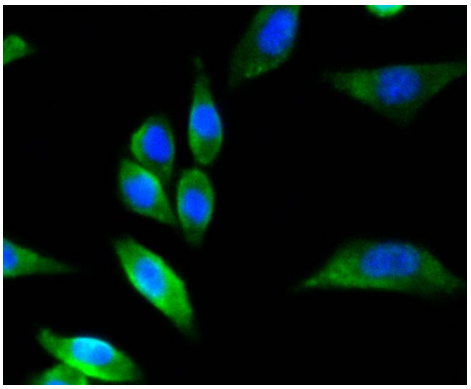
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-nNOS antibody. Counter stained with hematoxylin.



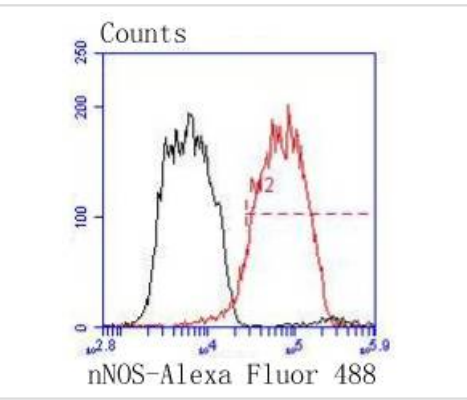
ICC staining nNOS in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining nNOS in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining nNOS in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of PC-12 cells with nNOS antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Nitric oxide (NO) has a broad range of biological activities and has been implicated in signaling pathways in phylogenetically diverse species. Nitric oxide synthases (NOSs), the enzymes responsible for synthesis of NO, contain an N-terminal oxygenase domain and a C-terminal reductase domain. NOS activity requires homodimerization as well as three cosubstrates (L-arginine, NADPH and O2) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetrahydrobiopterin and heme). Several distinct NOS isoforms have been described and been shown to represent the products of three distinct genes. These include two constitutive Ca2+/CaM-dependent forms of NOS, including NOS1 (also designated ncNOS) whose activity was first identified in neurons, and NOS3 (also designated ecNOS), first identified in endothelial cells. The inducible form of NOS, NOS2 (also designated iNOS), is Ca2+-independent and is expressed in a broad range of cell types.

References

Note: This product is for in vitro research use only