

NOS1/ nNOS Antibody
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Catalog # ASM10698**Specification**

NOS1/ nNOS Antibody - Product Information

Primary Accession	P29475
Other Accession	NP_000611.1
Host	Mouse
Clonality	Monoclonal
Target/Specificity	
NOS1	

Other Names

BNOS Antibody, Constitutive NOS 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, NNOS Antibody, NO Antibody, NOS 1 Antibody, NOS Antibody, NOS type I Antibody, NOS-I Antibody, NOS1 Antibody, NOS1_HUMAN Antibody

Immunogen

Partial Human Recombinant NOS1 Protein

Purification

Protein A Purified

Storage	-20°C
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Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% Sodium azide *Storage buffer may change when conjugated

Shipping Temperature	Blue Ice or 4°C
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Certificate of Analysis

A 1:1000 dilution of SMC-609 was sufficient for detection of NOS1/Nnos in 7.5 ug of Mouse Brain Cerebellum by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Cell Membrane

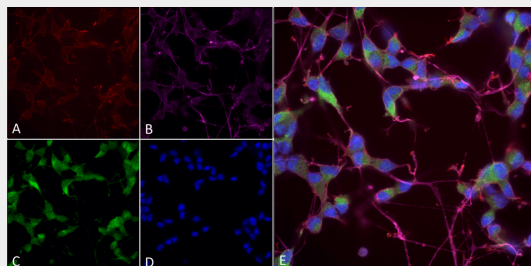
NOS1/ nNOS Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

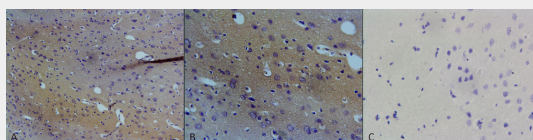
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

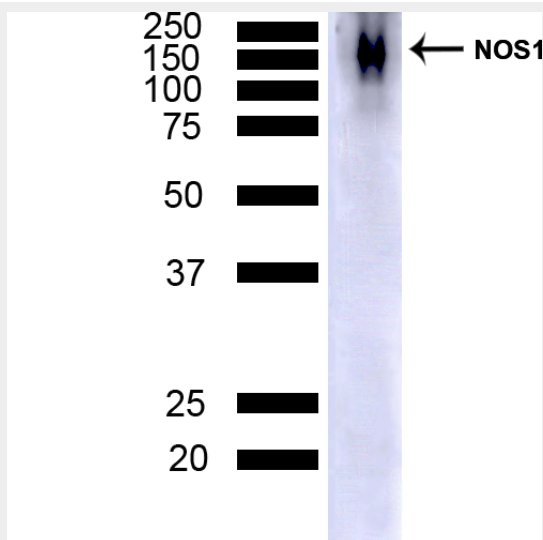
NOS1/ nNOS Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-NOS1/ nNos Monoclonal Antibody, Clone J23 (ASM10698). Tissue: Differentiated SH-SY5Y. Species: Human. Primary Antibody: Mouse Anti-NOS1/ nNos Monoclonal Antibody (ASM10698) at 1:250. Secondary Antibody: AlexaFluor 488. Counterstain: phalloidin (Alexa 647, red), beta tubulin (Anti-beta III Tubulin Ab, Alexa 555, magenta) Hoechst (blue). (A) Phalloidin (B) Anti-beta III Tubulin Ab. (C) NOS1/nNOS Antibody. (D) Hoechst (E) Composite.



Immunohistochemistry analysis using Mouse Anti-NOS1/ nNOS Monoclonal Antibody, Clone J23 (ASM10698). Tissue: brain tissue. Species: Rat. Primary Antibody: Mouse Anti-NOS1/ nNOS Monoclonal Antibody (ASM10698) at 1:100. Secondary Antibody: Goat anti-mouse IgG1: HRP at 1:100. Counterstain: DAPI at 1 ug/ml. A) ASM10698, 10X magnification. B) ASM10698, 20X magnification. C) Negative control mouse IgG (10 ug/ml), 20X magnification.



Western Blot analysis of Mouse Cerebellum showing detection of NOS1/ nNos protein using Mouse Anti-NOS1/ nNos Monoclonal Antibody, Clone J23 (ASM10698). Lane 1: MW ladder. Lane 2: Mouse Brain Cerebellum (7.5 ug). Load: 7.5 ug. Block: 5% Skim Milk powder in TBST. Primary Antibody: Mouse Anti-NOS1/ nNos Monoclonal Antibody (ASM10698) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.

NOS1/ nNOS Antibody - Background

nNOS/NOS I, also known as NC-NOS, or NOS type I, or Neuronal NOS, or produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. Nitric oxide production is mediated by members of the nitric oxide synthase (NOS) family. NOS catalyzes the oxidization of L-arginine to produce L-citrulline and NO. There are two constitutive isoforms, brain or neuronal NOS (b or nNOS, type I) & endothelial cell NOS (eNOS, type III), and one inducible isoform (iNOS, type II).