Human/Mouse/Rat nNOS Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2416

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat nNOS in Western blots. In direct ELISAs, this antibody shows approximately 5% cross-reactivity with recombinant human eNOS.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human nNOS Ser218-Ser1434 Accession # P29475
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

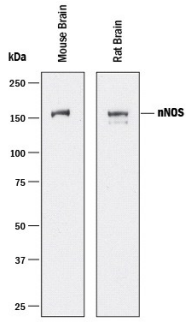
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	1-15 µg/mL	See Below
Simple Western	10 µg/mL	See Below

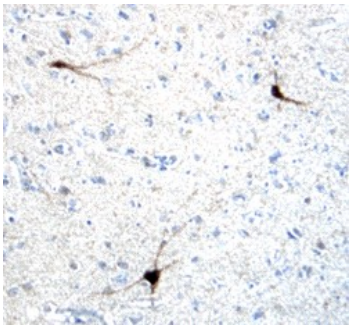
DATA

Western Blot



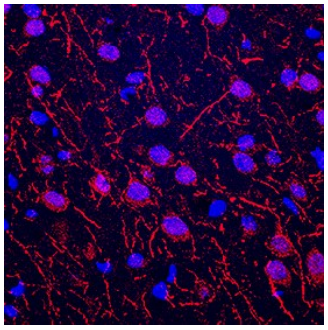
Detection of Mouse and Rat nNOS by Western Blot. Western blot shows lysates of mouse brain tissue and rat brain tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat nNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2416) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for nNOS at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



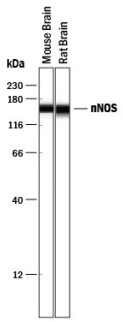
nNOS in Human Brain. nNOS was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using 1.7 µg/mL Goat Anti-Human/Mouse/Rat nNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2416) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of astrocytes in the cortex. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Immunohistochemistry



nNOS in Rat Brain. nNOS was detected in immersion fixed frozen sections of rat brain (cortex) using Goat Anti-Human/Mouse/Rat nNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2416) at 5 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to neurons and neuronal processes. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

Simple Western



Detection of Mouse and Rat nNOS by Simple Western™. Simple Western lane view shows lysates of mouse brain tissue and rat brain tissue, loaded at 0.2 mg/mL. A specific band was detected for nNOS at approximately 160 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse/Rat nNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2416) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

nNOS is one of three NOS enzymes that catalyze the oxidation of L-argine to L-citruline and nitric oxide. nNOS exists as homodimers containing a cytochrome P450-like prosthetic heme group in the N-terminal half. It also has a tightly bound FAD and FMN group in the C-terminal half. At least 4 isoforms of human nNOS are known. Human nNOS shares about 55% amino acid sequence identity with eNOS and iNOS. It also shares 96% sequence identity with mouse or rat nNOS.

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