Human/Mouse nNOS Antibody

Monoclonal Mouse IgG_1 Clone # 85340

Catalog Number: MAB24161

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human nNos in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 85340
Purification	Protein A or G purified from hybridoma culture supernatant
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.

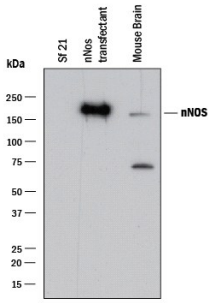
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below

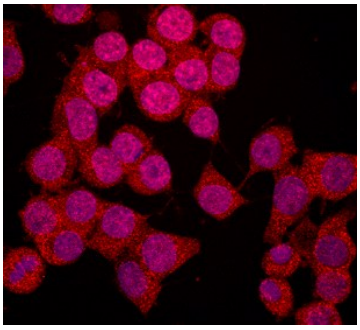
DATA

Western Blot



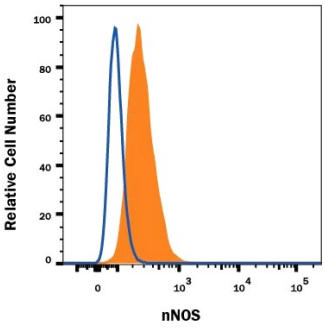
Detection of Human and Mouse nNOS by Western Blot. Western blot shows lysates of *Sf* 21 *S. frugiperda* insect ovarian cell line either mock transfected or transfected with human nNOS, and mouse brain tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse nNOS Monoclonal Antibody (Catalog # MAB24161) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). 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.

Immunocytochemistry



nNOS in Neuro-2A Mouse Cell Line. nNOS was detected in immersion fixed Neuro-2A mouse neuroblastoma cell line using Mouse Anti-Human/Mouse nNOS Monoclonal Antibody (Catalog # MAB24161) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei, cytoplasm and cell membrane. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Intracellular Staining by Flow Cytometry



Detection of nNOS in Neuro-2A Mouse Cell Line by Flow Cytometry. Neuro-2A mouse neuroblastoma cell line was stained with Mouse Anti-Human/Mouse nNOS Monoclonal Antibody (Catalog # MAB24161, filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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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