

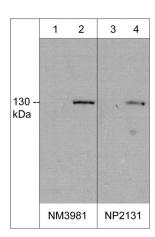
iNOS (C-terminal region)

Rabbit Polyclonal

Cat. # NP2131 **Size** 100 μl

Background

Nitric oxide (NO) has a broad range of biological activities and is implicated in signaling pathways in phylogenetically diverse species. Nitric oxide synthases (NOS), the enzymes responsible for synthesis of NO, are homodimers whose monomers are themselves two fused enzymes: a cytochrome reductase and a cytochrome that requires three cosubstrates (L-arginine, NADPH, and oxygen) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetrahydrobiopterin, and heme). Several distinct NOS isoforms are produced from three distinct genes. These include two constitutive Ca2+/CaM-dependent forms of NOS: nNOS (also designated bNOS, NOS-I), whose activity was first identified in neurons and eNOS (also designated ecNOS, NOS-III) first identified in endothelial cells. The inducible form of NOS, iNOS (also designated NOS-II), is Ca2+ independent and is expressed in a broad range of cell types. This form of NOS is induced after stimulation with cytokines and exposure to microbial products.



Western blot analysis of mouse macrophages untreated (lanes 1 & 3) or treated with LPS (1µg/ml) for 18 hrs (lanes 2 & 4). The blots were probed with mouse monoclonal anti-iNOS at 1:500 (lanes 1 & 2) or rabbit polyclonal anti-iNOS at 1:250 (NP2131).

Background References

Xie, Q.W. et al. (1992) Science 256:225. Kleinert, H. et al. (2003) Biol Chem. 384(10-11):1343. Musicki, B. et al. (2005) Proc. Natl. Acad. Sci.102(33):11870.

Applications	Species Reactivity	Specificity

WB	1:2000	Hu, Rt, Ms	The antibody detects a 130 kDa* protein on SDS-PAGE immunoblots of mouse
ELISA	1:4000		macrophages (RAW264.7) treated with IFNy and LPS, or J774A.1 cells treated
ICC	1:100		with LPS only.

End user should determine optimal dilution for their particular applications and experiments.

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen Uniprot ID: P35228

Amino acid residues within the C-terminal region of human iNOS. The human iNOS sequence used has high homology with similar regions in rat and mouse iNOS.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Stable for 1 year.

Related Products

ML8731 Mouse Macrophage LPS Control Lysate

ML8741 Mouse Macrophage + LPS (18 hr) Lysate

NM2211 eNOS (C-terminal region) Mouse Monoclonal

NP2281 eNOS Rabbit Polyclonal

NM2321 eNOS (Ser-632), phospho-specific Mouse Monoclonal

Product References

Wang, F. et al. (2018) EBioMedicine. 30:303. WB: mouse BMDM macrophage

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