10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-nNOS (C-terminal region) Antibody

Catalog # AN1871

Product Information

Application	WB, IHC, ICC
Primary Accession	P29475
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	160970

Additional Information

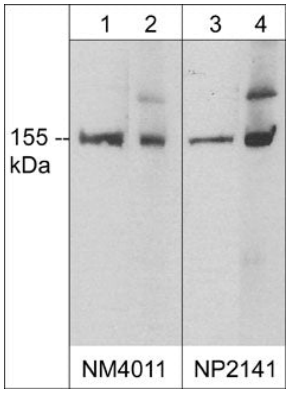
Gene ID	4842
Other Names	nNOS, Constitutive NOSb, neuronal nitric oxide synthase, NCNOS
Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-nNOS (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

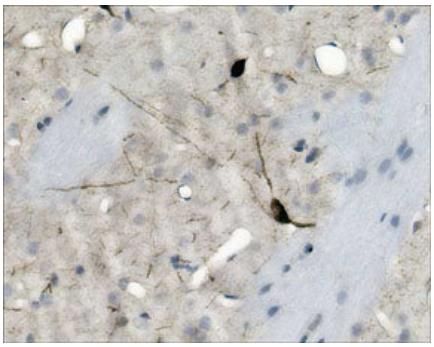
Background

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.

Images

Western blot analysis of nNOS expression in adult mouse brain (lanes 1 & 3) and rat GC cells (lanes 2 & 4). The blots were probed with mouse monoclonal anti-nNOS (C-terminal region) at 1:1000 (lanes 1 & 2) or rabbit polyclonal anti-nNOS at 1:250 (lanes 3 & 4).





Formalin fixed, citric acid treated parafin sections of adult Rat striatum. Sections were probed with anti-nNOS (AN1871) then anti-Rabbit:HRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.