

Product datasheet for AP06181PU-M

iNOS (NOS2) Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids C-terminus of Human NOS2.
Specificity:	This antibody detects endogenous levels of NOS2/iNOS protein. (region surrounding Val1131)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	~130.0 kDa
Gene Name:	nitric oxide synthase 2
Database Link:	<u>Entrez Gene 4843 Human</u> P35228



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GRIGENE iNOS (NOS2) Rabbit Polyclonal Antibody – AP06181PU-M

Background:Nitric oxide (NO) has a broad range of biological activities and has been implicated in
signaling pathways in phylogenetically diverse species. Nitric oxide synthases (NOSs), the
enzymes responsible for synthesis of NO, contain an N-terminal oxygenase domain and a C-
terminal reductase domain. NOS activity requires homodimerization as well as three
cosubstrates (L-arginine, NADPH and O2) and five cofactors or prosthetic groups (FAD, FMN,
calmodulin, tetrahydrobiopterin and heme). Several distinct NOS isoforms have been
described and been shown to represent the products of three distinct genes. These include
two constitutive Ca2+/CaM-dependent forms of NOS, including ncNOS (also designated
NOS1) whose activity was first identified in neurons and maps at 12q24.2, and ecNOS (also
designated NOS3), first identified in endothelial cells and mapping at 7q35-36. The inducible
form of NOS, iNOS (also designated NOS2), is Ca2+-independent, expressed in a broad range
of cell types and maps to 17cen -q12.

Synonyms:

NOS2A, iNOS, NOSII, NOS-II

Product images:



Western blot analysis of NOS2 antibody at 1/500 dilution. Lane 1: MCF-7 whole cell lysate. Lane 2: SP2/0 whole cell lysate. Lane 3: PC12 whole cell lysate. Lane 4: Rat liver tissue lysate.

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Immunohistochemistry analysis of iNOS antibody in paraffin-embedded Human lung carcinoma tissue.

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