

For Research Use Only

# iNOS Polyclonal antibody

Catalog Number: 22226-1-AP

156 Publications



## Basic Information

Catalog Number:

22226-1-AP

Concentration:

750 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17567

GenBank Accession Number:

BC130283

GeneID (NCBI):

4843

UNIPROT ID:

P35228

Full Name:

nitric oxide synthase 2, inducible

Calculated MW:

1153 aa, 131 kDa

Observed MW:

110-130 kDa, 65-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, chicken

Positive Controls:

WB : RAW 264.7 cells,

## Background Information

NOS2, also named as iNOS and NOS2A, produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. NO is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission, antimicrobial and antitumoral activities. NOS2 is a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. iNOS has a very short half-life due to rapid degradation by calpain. iNOS monomer is a direct substrate of calpain I and can be cleaved by calpain I at the canonical CaM-binding site(503-532aa) of iNOS, and then a ~70kD band can be detected by western (PMID:11786228).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mao Kobayashi	32992650	Int J Mol Sci	WB
Jingming Zhuang	36161709	Andrology	WB
Dewei He	36139502	Cells	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

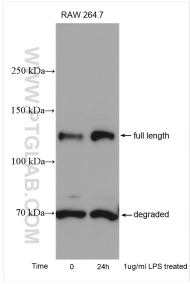
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

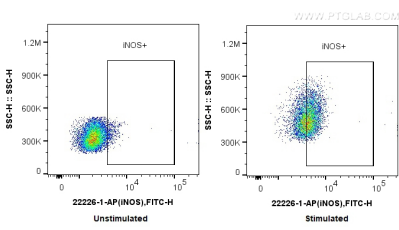
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Untreated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 22226-1-AP (NOS2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> LPS treated RAW 264.7 cells were intracellularly stained with 0.4 ug Anti-Human iNOS (22226-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).