

For Research Use Only

# iNOS Polyclonal antibody

Catalog Number: 18985-1-AP

Featured Product

895 Publications



## Basic Information

### Catalog Number:

18985-1-AP

### Concentration:

800 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000625

### GeneID (NCBI):

4843

### UNIPROT ID:

P35228

### Full Name:

nitric oxide synthase 2, inducible

### Calculated MW:

131 kDa

### Observed MW:

110-130 kDa, 65-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:4000

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IF, FC (Intra), IP, ELISA

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, chicken, bovine

### Positive Controls:

WB : mouse liver tissue, rat liver tissue

IF/ICC : HepG2 cells, HeLa cells

FC (Intra) : HepG2 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 ~70 kDa band can be detected by western (PMID:11786228). This antibody is specific to NOS2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lin-Tao Xu	34601084	J Ethnopharmacol	WB
Yan Yang	34582523	Biomater Sci	IF
Haoyu Guo	36201949	Biomaterials	IF

## 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:

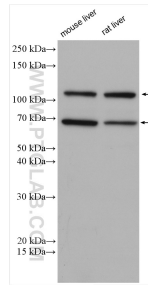
T: 4006900926

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

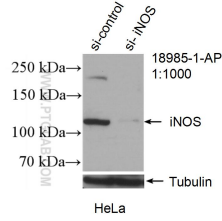
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

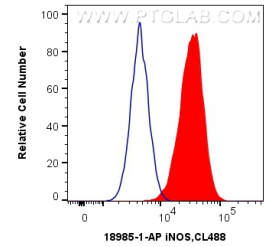
## Selected Validation Data



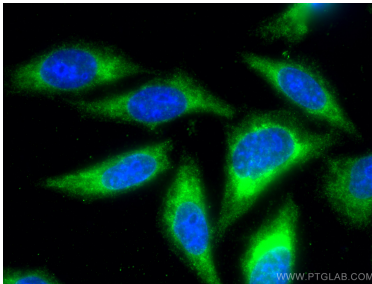
Various lysates were subjected to SDS PAGE followed by western blot with 18985-1-AP (iNOS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of iNOS antibody (18985-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-iNOS transfected HeLa cells.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug Anti-Human iNOS (18985-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using iNOS antibody (18985-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).