

For Research Use Only

# iNOS Recombinant antibody

Catalog Number: 80517-1-RR **14 Publications**



## Basic Information

<b>Catalog Number:</b> 80517-1-RR	<b>GenBank Accession Number:</b> NM_000625	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 4843	<b>CloneNo.:</b> 6022
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35228	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> nitric oxide synthase 2, inducible	
	<b>Calculated MW:</b> 131 kDa	
	<b>Observed MW:</b> 110-130 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
WB, IF, IHC

**Species Specificity:**  
Human, Mouse, Rat

**Cited Species:**  
human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** RAW 264.7 cells, LPS treated human PBMCs

**IHC :** mouse brain tissue, human colon tissue, rat brain tissue, human liver tissue, human lung tissue

## 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). This antibody is specific to NOS2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Songya Li	36076540	Biomed Pharmacother	IHC
Xiaomin Li	38285241	Appl Microbiol Biotechnol	IF
Shuangming Cai	37817070	BMC Pregnancy Childbirth	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

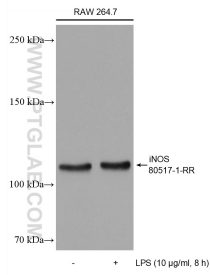
T: 4006900926

E: Proteintech-CN@ptglab.com

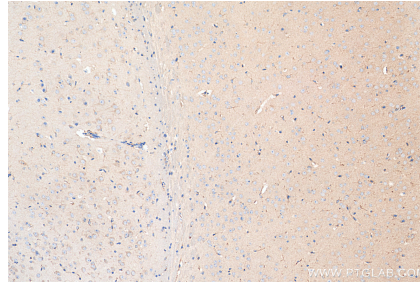
W: ptgcn.com

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

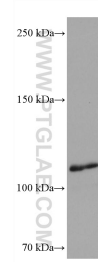
## Selected Validation Data



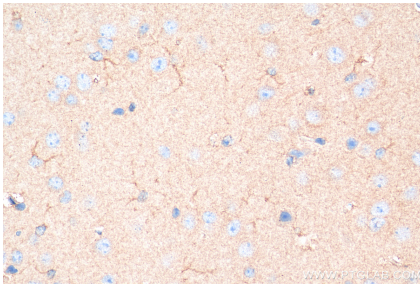
Untreated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 80517-1-RR (iNOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



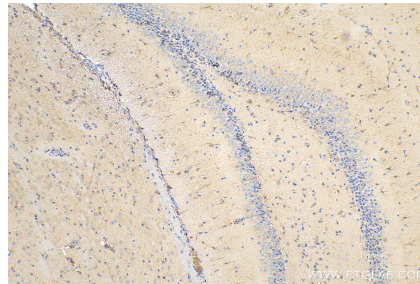
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



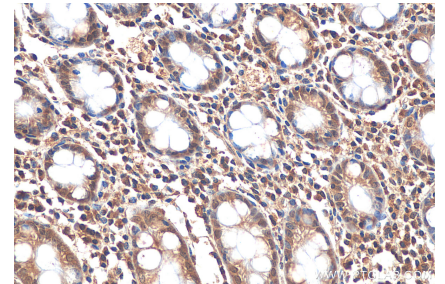
LPS treated human PBMCs were subjected to SDS PAGE followed by western blot with 80517-1-RR (iNOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



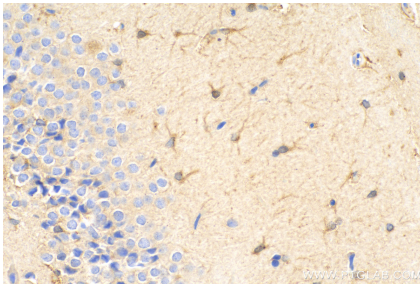
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



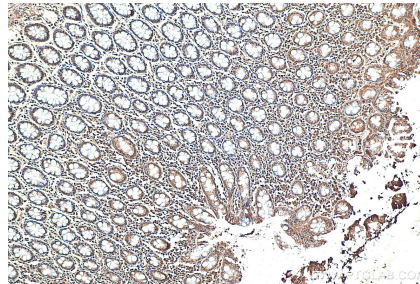
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).