

For Research Use Only

iNOS Recombinant antibody

Catalog Number: 80517-1-RR **50 Publications**



Basic Information

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

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : RAW 264.7 cells, LPS treated human PBMCs
Species Specificity: human, mouse, rat	IHC : mouse brain tissue, human colon tissue, rat brain tissue, human liver tissue, human lung tissue
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Qu Yang	40045356	Acta Neuropathol Commun	IF
Weikang Wu	40015209	Int Immunopharmacol	WB,IF

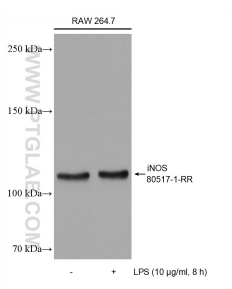
Storage

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

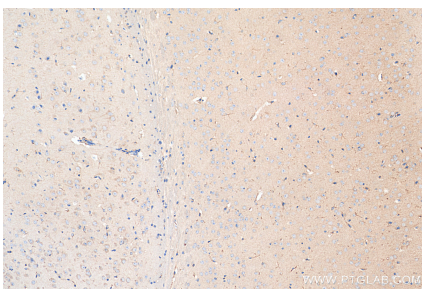
For technical support and original validation data for this product please contact:
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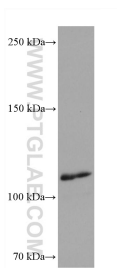
Selected Validation Data



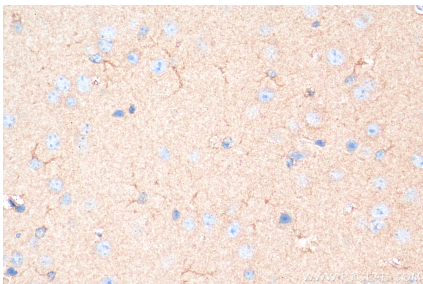
Untreated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 80517-1-RR (iNOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



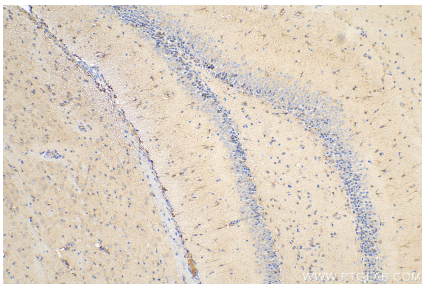
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



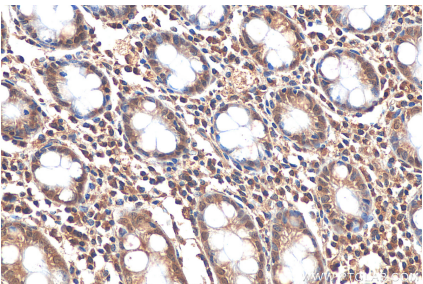
LPS treated human PBMCs were subjected to SDS PAGE followed by western blot with 80517-1-RR (iNOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



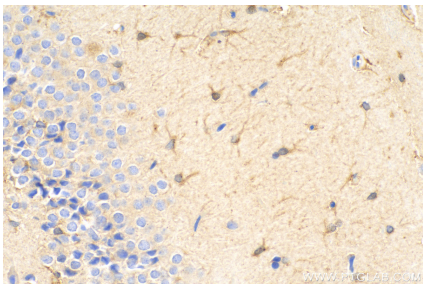
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



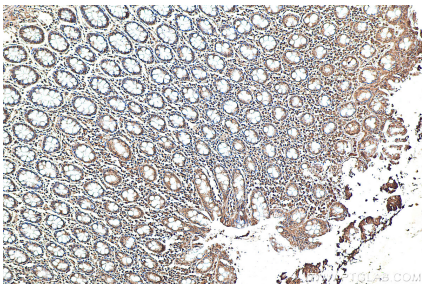
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).