For Research Use Only

iNOS Recombinant antibody, PBS Only

Catalog Number:80517-1-PBS



Basic Information	Catalog Number: 80517-1-PBS	GenBank Accession Number: NM_000625	Purification Method: Protein A purification
	Size: 100ug, Concentration: 1mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 4843 UNIPROT ID: P35228 Full Name: nitric oxide synthase 2, inducible Calculated MW: 131 kDa Observed MW: 110-130 kDa	CloneNo.: 6022
Applications	Tested Applications: WB, IHC, ELISA Species Specificity: human, mouse, rat		
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.		
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.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 80517-1-RR (iNOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation. Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 80517-1-RR (iNOS antibody) at dilution of 1:500 (under 40xlens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.





Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 80517-1-PBS in a different storage buffer formulation.