

For Research Use Only

nNOS Polyclonal antibody

Catalog Number: 29231-1-AP

5 Publications



Basic Information

Catalog Number: 29231-1-AP	GenBank Accession Number: NM_000620	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 ug/ml by Nanodrop;	GeneID (NCBI): 4842	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:250-1:1000 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: P29475	
Isotype: IgG	Full Name: nitric oxide synthase 1 (neuronal)	
Immunogen Catalog Number: AG28910	Calculated MW: 161 kDa	
	Observed MW: 160 kDa	

Applications

Tested Applications: WB, IHC, IF-P, FC (Intra), ELISA	Positive Controls: WB : mouse brain tissue, rat brain tissue
Cited Applications: WB, IF	IHC : mouse brain tissue,
Species Specificity: human, mouse, rat	IF-P : mouse brain tissue,
Cited Species: human, 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

nNOS belongs to the NOS family. nNOS produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. NO is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. NO is synthesized from L-arginine by nitric oxide synthases. nNOS is a nitric oxide synthase which is highly expressed in skeletal muscle. Genetic variations in nNOS gene are associated with susceptibility to infantile hypertrophic pyloric stenosis type 1 (IHPS1). The antibody can recognize isoform 1,2,4 of nNOS.

Notable Publications

Author	Pubmed ID	Journal	Application
Xuesong Wang	39656437	J Cell Mol Med	WB
Yicheng Wang	39505199	Neurosci Lett	WB
Zhenjie Yang	39104725	Pain Res Manag	WB

Storage

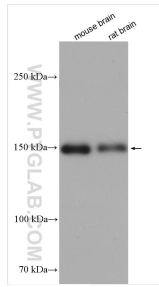
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

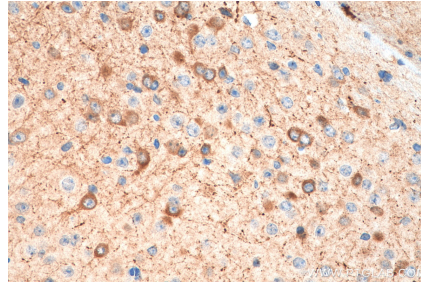
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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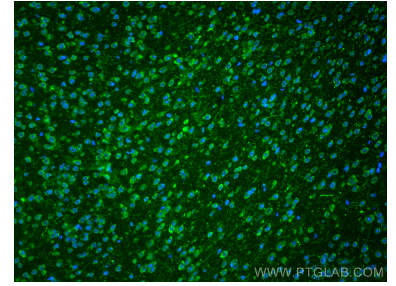
Selected Validation Data



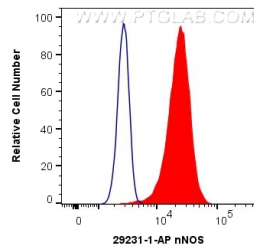
Various lysates were subjected to SDS PAGE followed by western blot with 29231-1-AP (nNOS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29231-1-AP (nNOS antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using nNOS antibody (29231-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human nNOS (29231-1-AP) and CoraLite®488-Conjugated 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).