

For Research Use Only

iNOS Polyclonal antibody

Catalog Number: 22226-1-AP **107 Publications**



Basic Information

Catalog Number: 22226-1-AP	GenBank Accession Number: BC130283	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 4843	Recommended Dilutions: WB 1:200-1:1000
Source: Rabbit	UNIPROT ID: P35228	
Isotype: IgG	Full Name: nitric oxide synthase 2, inducible	
Immunogen Catalog Number: AG17567	Calculated MW: 1153 aa, 131 kDa	
	Observed MW: 110-130 kDa, 65-70 kDa	

Applications

Tested Applications: WB, FC, ELISA	Positive Controls: WB : RAW 264.7 cells,
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse	
Cited Species: human, chicken, rat, mouse	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Mao Kobayashi	32992650	Int J Mol Sci	WB
Jingming Zhuang	36161709	Andrology	WB
Dewei He	36139502	Cells	WB

Storage

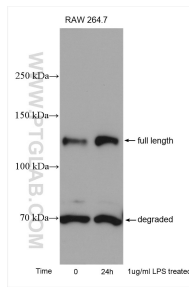
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

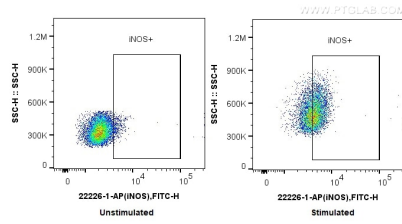
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Selected Validation Data



Untreated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 22226-1-AP (NOS2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



1×10^6 LPS treated RAW 264.7 cells were intracellularly stained with 0.4 μ g Anti-Human iNOS (22226-1-AP) and CoraLite[®] 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).