#13120 Store at -20G

iNOS (D6B6S) Rabbit mAb



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #P29477	Entrez-Gene Id: 18126	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting			1:1000		
	Imr	nunoprecipitation			1:50		
	Imr	munofluorescence (l	mmunocytochen	nistry)	1:200 - 1:800		
	Flo	Flow Cytometry (Fixed/Permeabilized)			1:800 - 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensit	cros	iNOS (D6B6S) Rabbit mAb recognizes endogenous levels of total iNOS protein. This antibody does not cross-react with other NOS proteins. iNOS (D6B6S) Rabbit mAb lacks sensitivity in fixed frozen mouse tissue by immunofluorescence.					
Source / Purification	***	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly1133 of mouse iNOS protein.					
Background	oxyg four lipop expi inclu	Nitric Oxide Synthase (NOS) catalyzes the formation of nitric oxide (NO) and citrulline from L-arginine, oxygen, and cofactors. Three family members have been characterized: neuronal NOS (nNOS), which is found primarily in neuronal tissue; inducible NOS (iNOS), which is induced by interferon gamma and lipopolysaccharides in the kidney and cardiovascular system; and endothelial NOS (eNOS), which is expressed in blood vessels (1). NO is a messenger molecule with diverse functions throughout the body, including the maintenance of vascular integrity, homeostasis, synaptic plasticity, long-term potentiation, learning, and memory (2,3).					
	cons tran in m NF- kina	NO catalyzed by iNOS is involved in host defense against protozoa, bacteria, fungi, and viruses. Unlike constitutively expressed eNOS and nNos, iNOS is not usually expressed in quiescent cells. iNOS is transcriptionally induced in response to bacterial endotoxins, such as LPS and proinflammatory cytokines, in macrophages and various other cell types. Transcription factors involved in iNOS transcription include NF-kB, AP-1, and STAT. Different signaling pathways either promote (Jak1/2, PKC, c-Raf, p38 MAP kinase, and p44/42 MAP kinase) or inhibit (PI3 kinase) iNOS expression depending on stimulus and cell type (4).					
Background Refer	ences 1. Ts	sutsui, M. (2004) <i>J A</i>	Atheroscler Thron	mb 11, 41-8.			

- 2. Son, H. et al. (1996) Cell 87, 1015-23.
- 3. Hawkins, R.D. (1996) Neuron 16, 465-7.
- 4. Bogdan, C. (2001) Nat Immunol 2, 907-16.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) **Applications Key**

FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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