

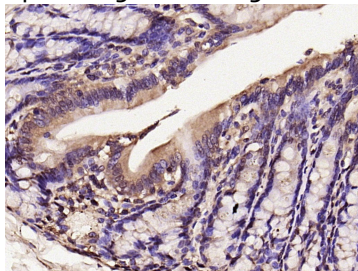
Anti-iNOS Polyclonal Antibody 3

Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Mouse,Rabbit)
Molecular Weight:	Theoretical: 130 kDa.
Purification:	Protein A purified

Applications

Verified Activity: Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (iNos) Polyclonal Antibody, Unconjugated (TMAB-00972) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.



Application:	IF,IHC-Fr,IHC-P
Recommended	IHC-P: 1:400-800; IHC-Fr: 1:400-800; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human iNos/Nos-2
Antigen Species:	Human
Gene ID:	4843
Uniprot ID:	P35228
Synonyms:	NOS 2A;MAC NOS;HEPNOS;NOS2;HEP NOS;Nitric oxide synthase inducible;NOS;NOS type II; Macrophage NOS;i NOS;Inducible NO synthase;Nitric oxide synthase 2 inducible macrophage; NOS2A;Hepatocyte NOS;Inducible NOS;INOS;Nitric oxide synthase 2A(inducible hepatocytes); Inducible nitric oxide synthase;NOS 2;Nitric Oxide Synthase, Inducible;Inosl;Nos II
Biology Area:	Cellular metabolic process,Response to hypoxia,Hypoxia,NOS

Research Background

Nitric oxide (NO) is an inorganic, gaseous free radical that carries a variety of messages between cells. Vasorelaxation, neurotransmission and cytotoxicity can all be potentiated through cellular response to NO. NO

production is mediated by members of the nitric oxide synthase (NOS) family. NOS catalyzes the oxidization of L-arginine to produce L-citrulline and NO. Two constitutive isoforms, brain or neuronal NOS (b or nNOS, type I) & endothelial cell NOS (eNOS, type III), and one inducible isoform (iNOS, type II), have been cloned. All NOS isoforms contain calmodulin, nicotinamide adenine dinucleotide phosphate (NADPH), flavin adenine dinucleotide (FAD), and flavin mononucleotide (FMN) binding domains. Nitric oxide synthase is expressed in liver, macrophages, hepatocytes, synoviocytes, stimulated glial cells and smooth muscle cells. Cytokines such as interferon-gamma (IFN), tumor necrosis factor (TNF), interleukin-1 and -2, and lipopolysaccharides (LPS) cause an increase in iNOS mRNA, protein, and activity levels. Protein kinase C-stimulating agents exhibit the same effect on iNOS activity. After cytokine induction, iNOS exhibits a delayed activity response which is then followed by a significant increase in NO production over a long period of time. Human iNOS is regulated by calcium/calmodulin (in contrast with mouse NOS2).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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