



iNOS Monoclonal Antibody

Catalog No	YP-mAb-17172
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NOS2, INOS
Immunogen	The antiserum was produced against synthesized peptide derived from human iNOS. AA range:117-166
Specificity	NOS2 Monoclonal Antibody detects endogenous levels of NOS2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	NOS2;EC:1.14.13.39;Hepatocyte NOS;HEP-NOS;Inducible NO synthase;NOS2/iNOS;INOS;Nitric oxide synthase inducible;NOS2A;Nitric oxide synthase;inducible;Inducible NOS;NOS type II;Peptidyl-cysteine S-nitrosylase NOS2; INOS
Observed Band	131kD
Calculated Molecular Weight	131kD
Cell Pathway	Cytoplasm, cytosol . Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization. .
Tissue Specificity	Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Expressed in chondrocytes (PubMed:7504305).
Function	catalytic activity:L-arginine + n NADPH + n H(+) + m O(2) = citrulline + nitric oxide + n NADP(+).,cofactor: Binds 1 FAD.,cofactor: Binds 1 FMN.,cofactor: Heme group.,cofactor: Tetrahydrobiopterin (BH4). May stabilize the dimeric form of the enzyme.,enzyme regulation: Regulated by calcium/calmodulin. Aspirin inhibits expression and function of this enzyme and effects may be exerted at the level of translational/post-translational modification and directly on the catalytic activity.,function: Produces nitric oxide (NO) which is a messenger molecule with



diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions.,induction:By endotoxins and cytokines.,online information:Nitric oxide synthase entry,similarity:Belongs to the NOS family.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 flavodoxin-like domain.,subunit:Homodimer. Bin

Background

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase which is expressed in liver and is inducible by a combination of lipopolysaccharide and certain cytokines. Three related pseudogenes are located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

