
Product Name: NOS2 Rabbit Polyclonal Antibody**Catalog #: APRab14803**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	131kDa

Antigen Information

Gene Name	NOS2
Alternative Names	NOS2; NOS2A; Nitric oxide synthase; inducible; Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
Gene ID	4843.0
SwissProt ID	P35228
Immunogen	The antiserum was produced against synthesized peptide derived from human iNOS. AA range:117-166

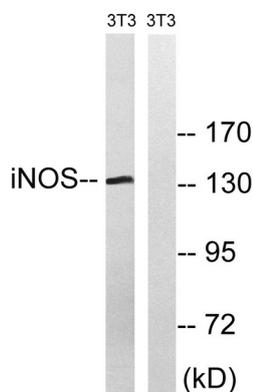
Background

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],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. Binds SLC9A3R1,tissue specificity: Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets,

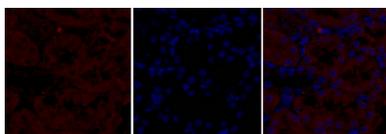
Research Area

Arginine and proline metabolism;Calcium;Pathways in cancer;Small cell lung cancer;

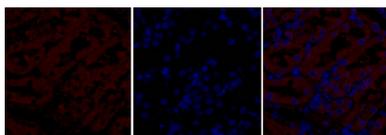
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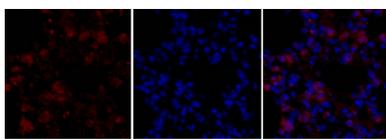
Western blot analysis of lysates from NIH/3T3 cells, using iNOS Antibody. The lane on the right is blocked with the synthesized peptide.



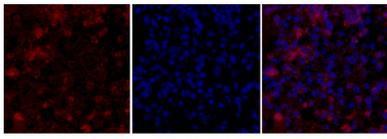
Immunofluorescence analysis of rat-kidney tissue. 1,NOS2 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



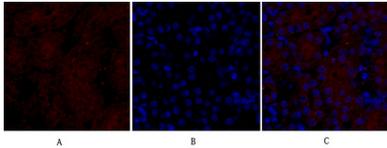
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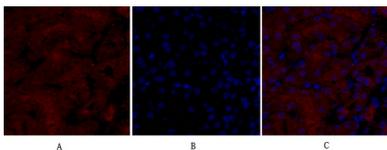
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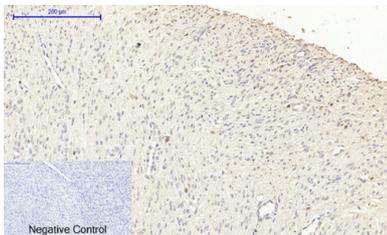
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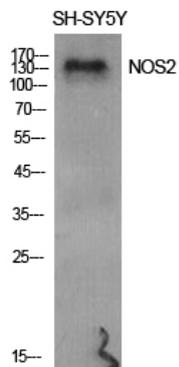
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Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,NOS2 Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.



Western Blot analysis of various cells using NOS2 Polyclonal Antibody diluted at 1:500