

Product Name: NOS2 Rabbit Polyclonal Antibody
Catalog #: APRab14803



Summary

Production Name	NOS2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB, IHC, ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	NOS2, INOS
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. The antiserum was produced against synthesized peptide derived from human iNOS. AA range: 117-166

Application

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

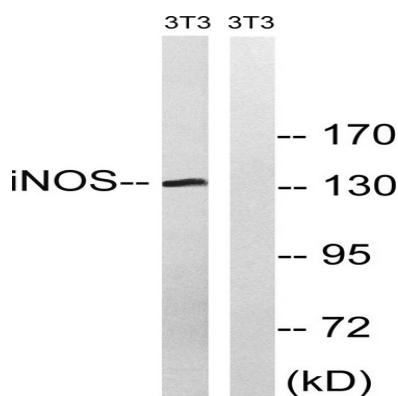
Background

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 O₂ = 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

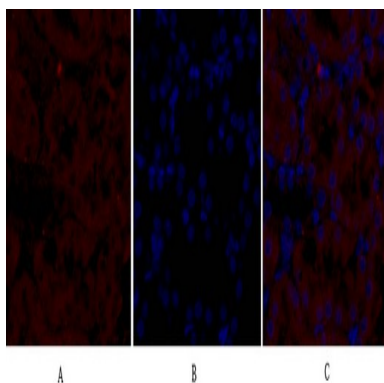
Arginine and proline metabolism; Calcium; Pathways in cancer; Small cell lung cancer;

Image Data



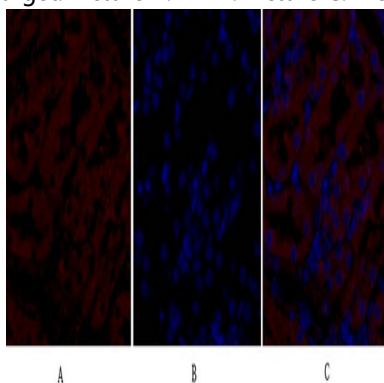
Western blot analysis of lysates from NIH/3T3 cells, using iNOS Antibody. The lane on the right is blocked with the synthesized peptide.

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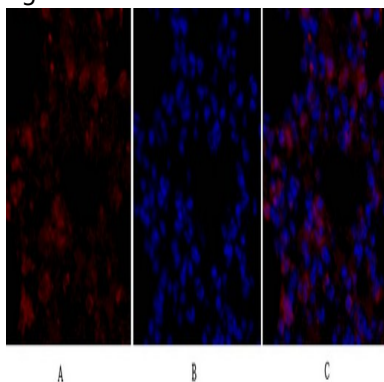
Immunofluorescence analysis of rat-kidney tissue. 1, NOS2 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight) .
2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



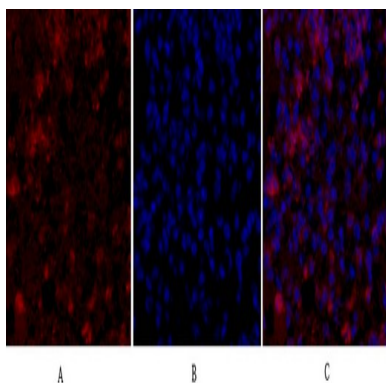
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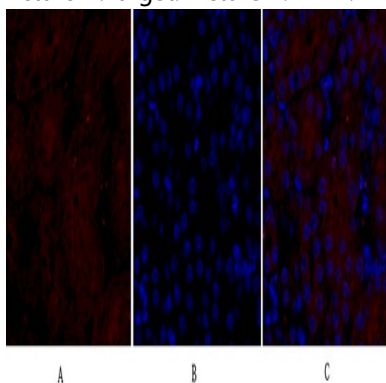


Immunofluorescence analysis of mouse-lung tissue. 1, NOS2 Polyclonal Antibody (red) was diluted at
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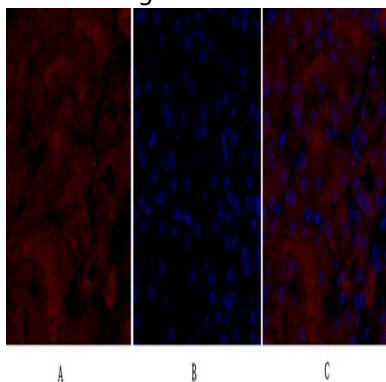
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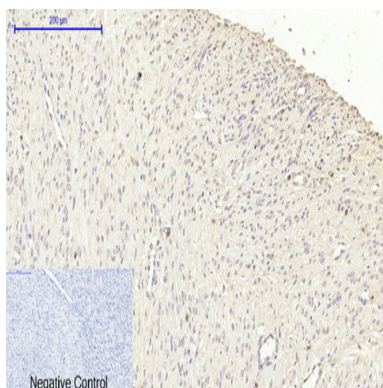


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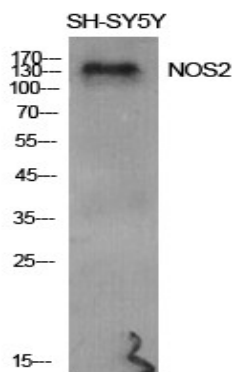


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Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1, NOS2 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20 min). 3, Secondary antibody was diluted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



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

Note

For research use only.