

**Product Name: NOS2 (phospho Tyr151) Rabbit Polyclonal Antibody**  
**Catalog #: APRab05121**

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## Summary

<b>Production Name</b>	NOS2 (phospho Tyr151) Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

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

## Immunogen

<b>Gene Name</b>	NOS2, INOS
<b>Alternative Names</b>	NOS2; NOS2A; Nitric oxide synthase; inducible; Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
<b>Gene ID</b>	4843.0
<b>SwissProt ID</b>	P35228.The antiserum was produced against synthesized peptide derived from human iNOS around the phosphorylation site of Tyr151. AA range:117-166

## Application

<b>Dilution Ratio</b>	IHC 1:100 - 1:300. ELISA: 1:10000..
<b>Molecular Weight</b>	

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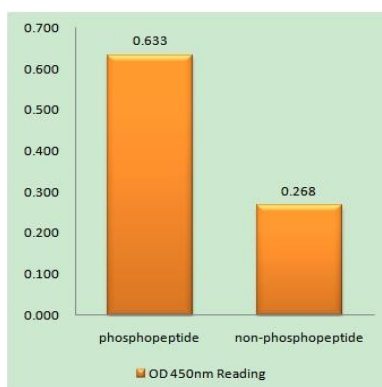
## Background

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;

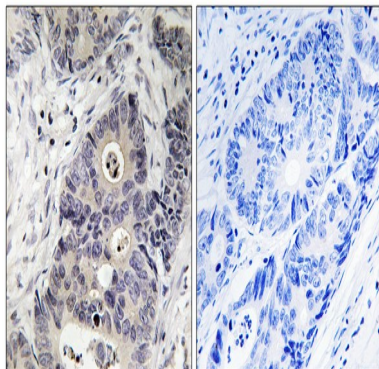
## Image Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using iNOS (Phospho-Tyr151) Antibody

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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using iNOS (Phospho-Tyr151) Antibody.  
The picture on the right is blocked with the phospho peptide.

### **Note**

For research use only.