

# NOS2 Polyclonal Antibody

Catalog # AP71352

## Product Information

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Application	WB, IHC-P, IF
Primary Accession	<a href="#">P35228</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	131117

## Additional Information

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Gene ID	4843
Other 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
Dilution	WB~~1:1000 IHC-P~~N/A IF~~IF: 1:50-200 WB 1:500-2000, ELISA 1:10000-20000 IHC 1:50-300
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	NOS2 ( <a href="#">HGNC:7873</a> )
Synonyms	NOS2A
Function	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed: <a href="#">7504305</a> , PubMed: <a href="#">7531687</a> , PubMed: <a href="#">7544004</a> , PubMed: <a href="#">7682706</a> ). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such PTGS2/COX2 (By similarity). As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S-nitrosylation of GAPDH on 'Cys-247' implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM (PubMed: <a href="#">25417112</a> ). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (PubMed: <a href="#">19688109</a> ).
Cellular Location	Cytoplasm, cytosol. Note=Localizes as discrete foci scattered throughout the

cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization.

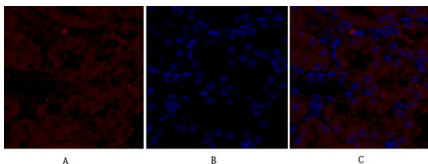
## Tissue Location

Expressed in the liver, retina, bone cells and airway epithelial cells of the lung.  
Not expressed in the platelets Expressed in chondrocytes (PubMed:7504305)

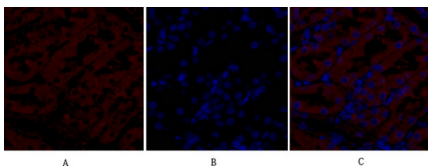
## Background

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed:[7531687](#), PubMed:[7544004](#)). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such PTGS2/COX2 (By similarity). As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S-nitrosylation of GAPDH on 'Cys-247' implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM (PubMed:[25417112](#)). Involved in inflammation, enhances the synthesis of proinflammatory mediators such as IL6 and IL8 (PubMed:[19688109](#)).

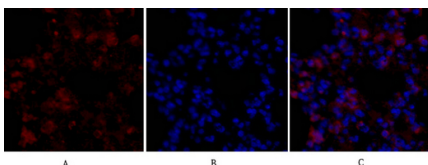
## Images



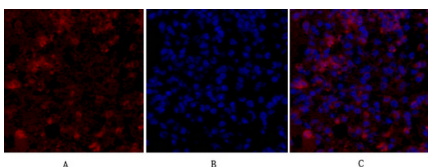
Immunofluorescence analysis of rat-kidney tissue.  
1, NOS2 Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



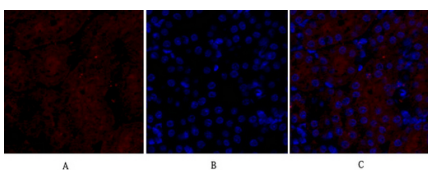
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Immunofluorescence analysis of mouse-lung tissue.  
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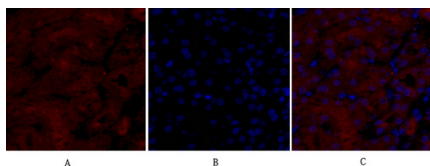


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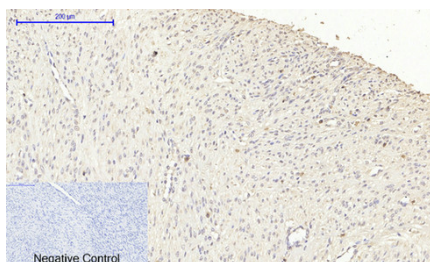


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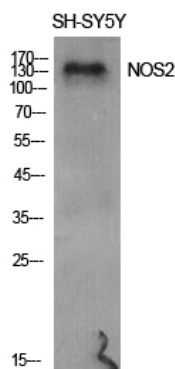
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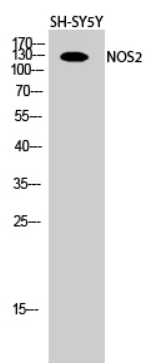
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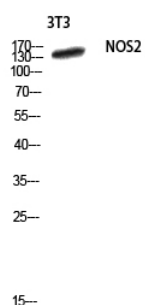
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1,NOS2 Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was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



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

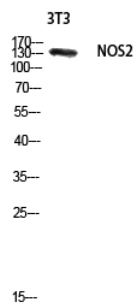


Western Blot analysis of SH-SY5Y cells using NOS2 Polyclonal Antibody diluted at 1 : 500

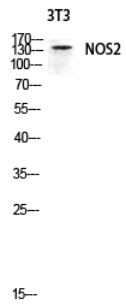


Western blot analysis of 3T3 lysis using NOS2 antibody. Antibody was diluted at 1:500

Western blot analysis of 3T3 lysis using NOS2 antibody. Antibody was diluted at 1:500



Western blot analysis of 3T3 lysis using NOS2 antibody.  
Antibody was diluted at 1:500



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