

NOS2 Polyclonal Antibody
Catalog # AP71352**Specification****NOS2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	P35228
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

NOS2 Polyclonal Antibody - Additional Information**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

DilutionWB~~IF: 1:50-200 WB 1:500-2000, ELISA 1:10000-20000 IHC 1:50-300
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

NOS2 Polyclonal Antibody - Protein Information**Name** NOS2 ([HGNC:7873](#))**Synonyms** NOS2A**Function**

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed:[7504305](http://www.uniprot.org/citations/7504305), PubMed:[7531687](http://www.uniprot.org/citations/7531687), PubMed:[7544004](http://www.uniprot.org/citations/7544004), PubMed:[7682706](http://www.uniprot.org/citations/7682706)). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such as 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:[7504305](#)

href="http://www.uniprot.org/citations/25417112" target="_blank">25417112). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (PubMed:19688109).

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

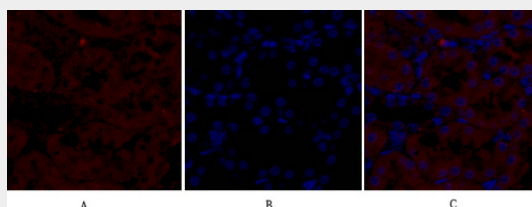
Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets Expressed in chondrocytes (PubMed:7504305)

NOS2 Polyclonal Antibody - Protocols

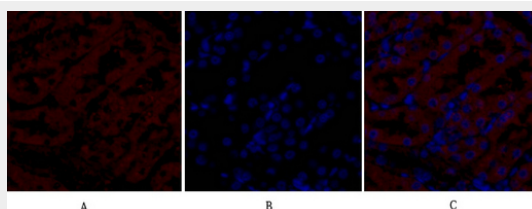
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

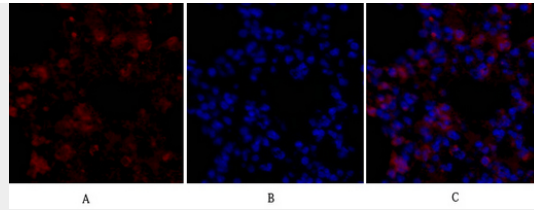
NOS2 Polyclonal Antibody - Images



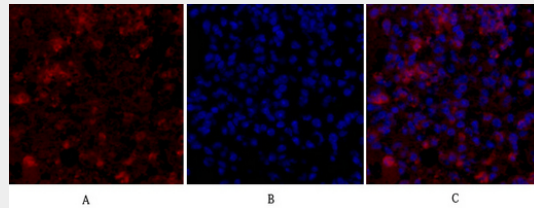
Immunofluorescence analysis of rat-kidney tissue. 1,NOS2 Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



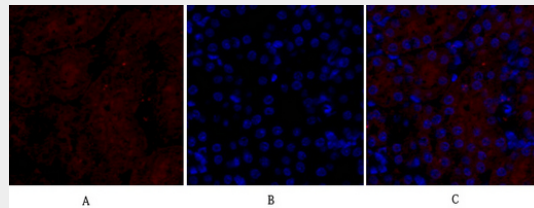
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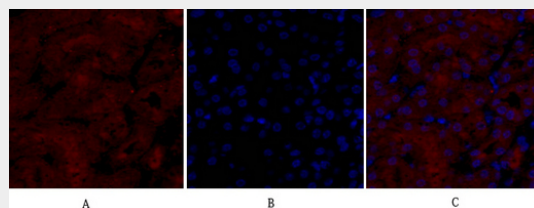
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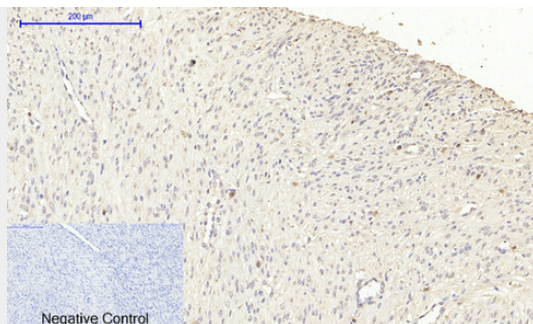
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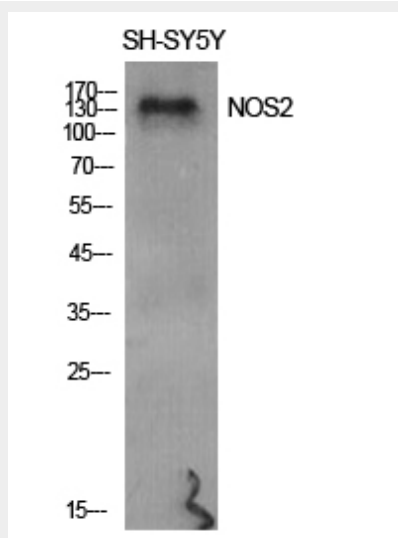
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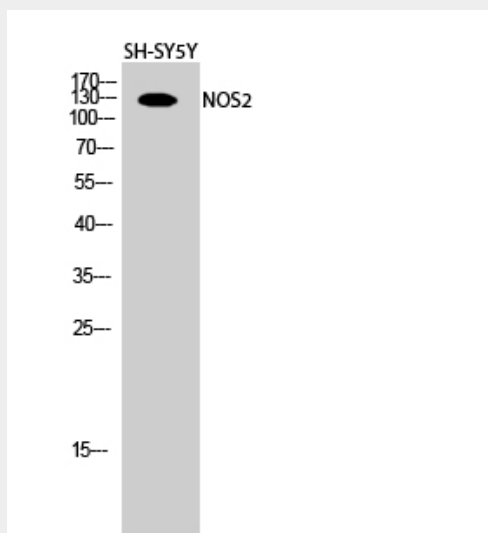
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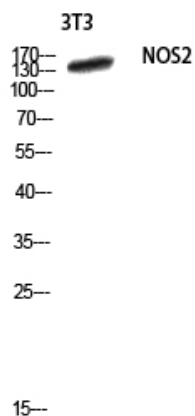
Immunohistochemical analysis of paraffin-embedded Human-uterus-cancer tissue. 1, NOS2 Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control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



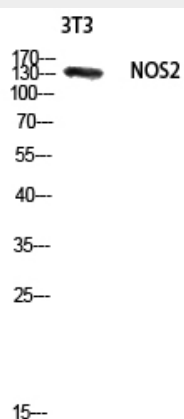
Western Blot analysis of various cells using NOS2 Polyclonal Antibody diluted at 1:500



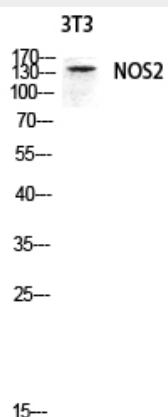
Western Blot analysis of SH-SY5Y cells using NOS2 Polyclonal Antibody diluted at 1:500



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



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NOS2 Polyclonal Antibody - 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 as 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).