

# NOS2 Polyclonal Antibody

Catalog # AP71353

## Product Information

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

## 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
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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**

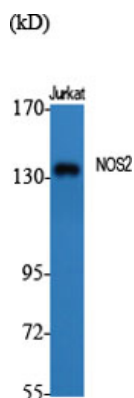
Cytoplasm, cytosol. Note=Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization.

**Tissue Location**

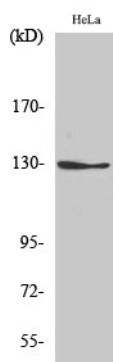
Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets Expressed in chondrocytes (PubMed:7504305)

**Background**

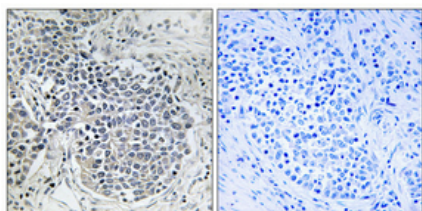
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**Images**

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



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



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4°, overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.