

**NOS2A Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14168a**

**Specification**

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**NOS2A Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P35228</a>
Other Accession	<a href="#">NP_000616.3</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	131117
Antigen Region	108-138

**NOS2A Antibody (N-term) - Additional Information**

**Gene ID** 4843

**Other Names**

Nitric oxide synthase, inducible, Hepatocyte NOS, HEP-NOS, Inducible NO synthase, Inducible NOS, iNOS, NOS type II, Peptidyl-cysteine S-nitrosylase NOS2, NOS2, NOS2A

**Target/Specificity**

This NOS2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 108-138 amino acids from the N-terminal region of human NOS2A.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NOS2A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NOS2A Antibody (N-term) - 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:[7531687](#), PubMed:[7544004](#), PubMed:[7682706](#), PubMed:[7504305](#)). 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 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**

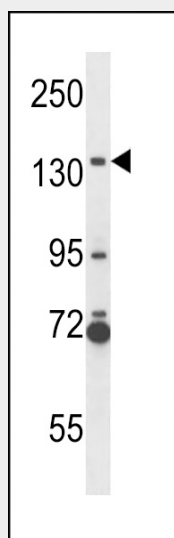
Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets Expressed in chondrocytes (PubMed:[7504305](#))

### **NOS2A Antibody (N-term) - 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](#)

### **NOS2A Antibody (N-term) - Images**



NOS2A Antibody (N-term) (Cat. #AP14168a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the NOS2A antibody detected the NOS2A protein (arrow).

### **NOS2A Antibody (N-term) - 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.

#### **NOS2A Antibody (N-term) - References**

Ryk, C., et al. J. Urol. 184(5):2150-2157(2010)  
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