

**NOS2A Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14168a****Specification**

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**NOS2A Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P35228](#)**NOS2A Antibody (N-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NOS2A Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/7531687), PubMed: [7544004](http://www.uniprot.org/citations/7544004), PubMed: [7682706](http://www.uniprot.org/citations/7682706), PubMed: [7504305](http://www.uniprot.org/citations/7504305)). 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](http://www.uniprot.org/citations/25417112)). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (PubMed: [19688109](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**NOS2A Antibody (N-term) Blocking Peptide - Images****NOS2A Antibody (N-term) Blocking Peptide - Background**

Nitric oxide is a reactive free radical which acts as abiologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes anitric 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 syndromeregion on chromosome 17.

**NOS2A Antibody (N-term) Blocking Peptide - References**

Ryk, C., et al. J. Urol. 184(5):2150-2157(2010) Planche, T., et al. Am. J. Physiol. Regul. Integr. Comp. Physiol. 299 (5), R1248-R1253 (2010) :Feng, C., et al. FEBS Lett. 584(20):4335-4338(2010) Mokrzycka, M., et al. Folia Histochem. Cytobiol. 48(2):191-196(2010) Tupitsyna, T.V., et al. Mol. Gen. Mikrobiol. Virusol. 3, 3-7 (2010) :