

iNOS Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51393

Specification

iNOS Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	P35228
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	130 KDa

iNOS Antibody - 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

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

iNOS 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: [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)

iNOS 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](#)

iNOS Antibody - Images**iNOS Antibody - Background**

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such COX2.

iNOS Antibody - References

Sherman P.A.,et al.Biochemistry 32:11600-11605(1993).
Geller D.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:3491-3495(1993).
Charles I.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:11419-11423(1993).
Maier R.,et al.Biochim. Biophys. Acta 1208:145-150(1994).
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