

Anti-iNOS Antibody

Catalog # AP95978

Product Information

Application	WB, IHC, FC
Primary Accession	P35228
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	131117

Additional Information

Gene ID	4843
Other Names	NOS2A; NitrIC, oxide synthase, inducible; Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
Target/Specificity	Recombinant fusion protein of human iNOS expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

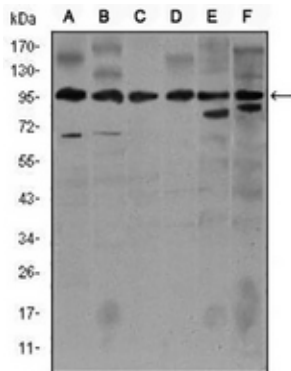
Name	NOS2 (HGNC:7873)
Synonyms	NOS2A
Function	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed: 7504305 , PubMed: 7531687 , PubMed: 7544004 , PubMed: 7682706). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase 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.

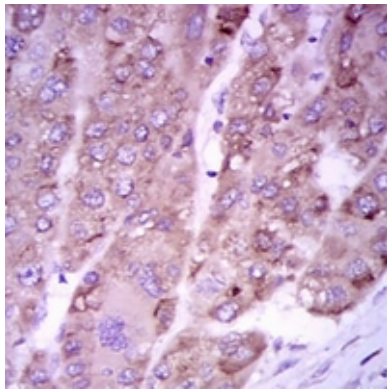
Tissue Location

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

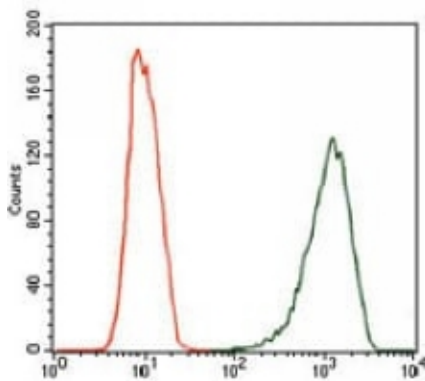
Images



Western blot analysis of iNOS expression in Jurkat (A), Jurkat (B), A549 (C), Hela (D), NIH3T3 (E), MCF7 (F) whole cell lysates. (Predicted band size: 131 kD; Observed band size: 100 kD)



Immunohistochemical analysis of iNOS staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of MCF7 cells using Anti-iNOS Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.