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iNOS Antibody

Rabbit mAb
Catalog # AP90991

Product Information

Application	WB, IF, ICC, IP
Primary Accession	P35228
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	HEP-NOS; Hepatocyte NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	131117

Additional Information

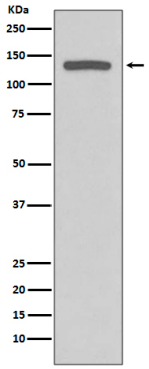
Dilution	WB 1:500~1:1000 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human iNOS
Description	iNOS Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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 Human fetal brain lysate.

Image not found : 202311/AP90991-IF.jpg

Immunofluorescent analysis of Raw264.7 cells treated with LPS, using iNOS Antibody.

Image not found : 202311/AP90991-wb6.jpg

Zinc inhibited LPS-induced inflammatory responses by upregulating A20 expression in microglia BV2 cells.
-Journal of Affective Disorders

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