

Rabbit iNOS Polyclonal Antibody | anti-iNOS antibody

Phospho-iNOS (Tyr151) Antibody

CATALOG # AAA321597	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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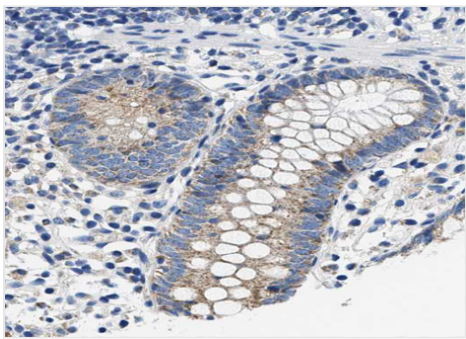
PRODUCT SYNONYMS

iNOS; Polyclonal Antibody; Phospho-iNOS (Tyr151) Antibody; HEP-NOS; Hepatocyte NOS; HEPNOS; inducible; Inducible nitric oxide synthase; Inducible NO synthase; Inducible NOS; MAC NOS; Macrophage NOS; Nitric oxide synthase 2 inducible; Nitric oxide synthase 2 inducible macrophage; nitric oxide synthase 2A (inducible; hepatocytes); Nitric oxide synthase; Nitric oxide synthase inducible; nitric oxide synthase; macrophage; NOS 2; NOS; Nos II; NOS type II; nos2; NOS2_HUMAN; NOS2A; Inducible; Hepatocyte; Peptidyl-cysteine S-nitrosylase NOS2; anti-iNOS antibody

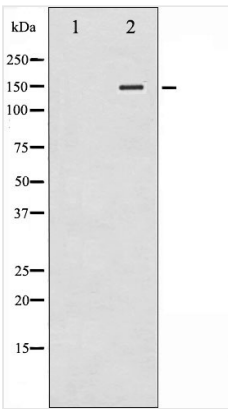
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-iNOS (Tyr151) antibody detects endogenous levels of iNOS only when phosphorylated at Tyrosine 151.
Purity/Purification	Peptide affinity purification
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1153
Applicable Applications for anti-iNOS antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human iNOS around the phosphorylation site of Tyrosine 151
Tissue Specificity	Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Dog
Similarity	Bovine (100%), Horse (83%), Sheep (100%), Dog (92%)
Conjugation	Unconjugated
Epitope	Phospho Tyr151
Important	For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321597 at 1/100 staining human colon tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from heat-shock treated RAW264.7 cells.7, using Phospho-iNOS (Tyr151) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-iNOS antibody

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.

Function: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed:7531687, PubMed:7544004). 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 proinflammatory mediators such as IL6 and IL8 (PubMed:19688109).

Subunit Structure: Homodimer. Binds SLC9A3R1. Interacts with GAPDH; induced by oxidatively-modified low-density lipoprotein (LDL(ox)). Interacts with S100A8 and S100A9 to form the iNOS-S100A8/9 transnitrosylase complex.

Similarity: Belongs to the NOS family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24041029
NCBI GeneID	4843
NCBI Accession #	NP_000616.3
NCBI GenBank Nucleotide #	NM_000625.4
UniProt Accession #	P35228; O60757; O94994; Q16263; Q16692; Q4TTS5; Q9UD42; A1L3U5; B7ZLY2
Molecular Weight	132kDa
NCBI Official Full Name	nitric oxide synthase, inducible
NCBI Official Synonym Full Names	nitric oxide synthase 2
NCBI Official Symbol	NOS2
NCBI Official Synonym Symbols	NOS; INOS; NOS2A; HEP-NOS
NCBI Protein Information	nitric oxide synthase, inducible
UniProt Protein Name	Nitric oxide synthase, inducible
UniProt Gene Name	NOS2
UniProt Synonym Gene Names	NOS2A; HEP-NOS; Inducible NOS; iNOS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/inos-antibody-immunohistochemistry-western-blot-elisa/321597>