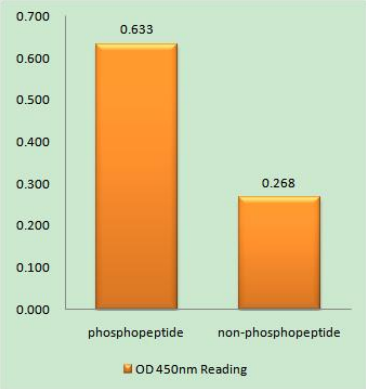
iNOS (phospho Tyr151) Polyclonal Antibody

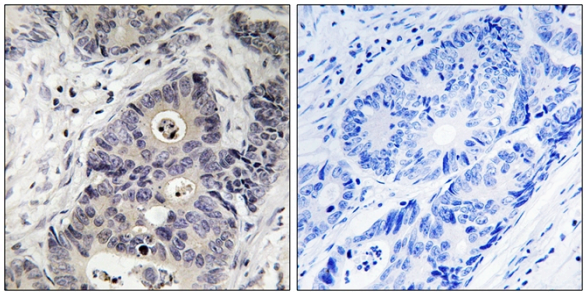
Catalog No	YP-Ab-17168
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	NOS2, INOS
Immunogen	The antiserum was produced against synthesized peptide derived from human iNOS around the phosphorylation site of Tyr151. AA range:117-166
Specificity	Phospho-NOS2 (Y151) Polyclonal Antibody detects endogenous levels of NOS2 protein only when phosphorylated at Y151.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HEP-NOS;Hepatocyte NOS;HEPNOS;inducible;Inducible nitric oxide synthase; Inducible NO synthase;Inducible NOS;iNOS;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;macrophage;NOS 2;NOS;Nos II;NOS type II;nos2; NOS2_HUMAN;NOS2A;Hepatocyte;Peptidyl-cysteine S-nitrosylase NOS2; NOS2/iNOS
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm, cytosol . Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization. .
Tissue Specificity	Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Expressed in chondrocytes (PubMed:7504305).
Function	catalytic activity:L-arginine + n NADPH + n H(+) + m O(2) = citrulline + nitric oxide + n NADP(+).,cofactor:Binds 1 FAD.,cofactor:Binds 1 FMN.,cofactor:Heme group.,cofactor:Tetrahydrobiopterin (BH4). May stabilize the dimeric form of the

	enzyme.,enzyme regulation:Regulated by calcium/calmodulin. Aspirin inhibits expression and function of this enzyme and effects may be exerted at the level of translational/post-translational modification and directly on the catalytic activity.,function:Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions.,induction:By endotoxins and cytokines., online information:Nitric oxide synthase entry,similarity:Belongs to the NOS family.,similarity:Contains 1 FAD-binding FR-type domain.,similarity:Contains 1 flavodoxin-like domain.,subunit:Homodimer. Bin
Background	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric 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 syndrome region on chromosome 17. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using iNOS (Phospho-Tyr151) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using iNOS (Phospho-Tyr151) Antibody. The picture on the right is blocked with the phospho peptide.