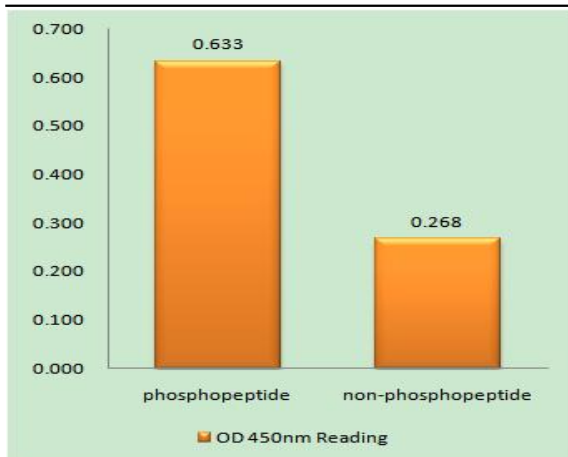


**iNOS (phospho Tyr151) Polyclonal Antibody**

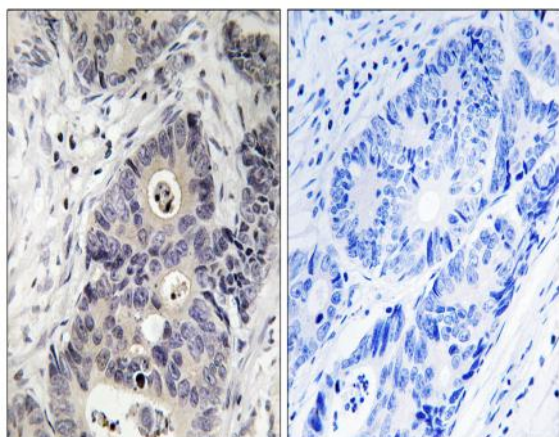
<b>Catalog No :</b>	YP1067
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	NOS2/iNOS
<b>Fields :</b>	>>Arginine biosynthesis;>>Arginine and proline metabolism;>>Metabolic pathways;>>Calcium signaling pathway;>>HIF-1 signaling pathway;>>Peroxisome;>>Apelin signaling pathway;>>Relaxin signaling pathway;>>Alzheimer disease;>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases;>>Pertussis;>>Leishmaniasis;>>Chagas disease;>>Toxoplasmosis;>>Amoebiasis;>>Tuberculosis;>>Pathways in cancer;>>Small cell lung cancer
<b>Gene Name :</b>	NOS2, INOS
<b>Protein Name :</b>	Nitric oxide synthase inducible
<b>Human Gene Id :</b>	4843
<b>Human Swiss Prot No :</b>	P35228
<b>Mouse Gene Id :</b>	18126
<b>Mouse Swiss Prot No :</b>	P29477
<b>Rat Gene Id :</b>	24599
<b>Rat Swiss Prot No :</b>	Q06518
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human iNOS around the phosphorylation site of Tyr151. AA range:117-166
<b>Specificity :</b>	Phospho-NOS2 (Y151) Polyclonal Antibody detects endogenous levels of NOS2 protein only when phosphorylated at Y151.  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

<b>Formulation :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	131kD
<b>Cell Pathway :</b>	Arginine and proline metabolism;Calcium;Pathways in cancer;Small cell lung cancer;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	Cytoplasm, cytosol . Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization. .
<b>Expression :</b>	Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Expressed in chondrocytes (PubMed:7504305).

## 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.