G-Biosciences Image not found or type unknown

Immunotag™ NOS2 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT3169
Product Description	Immunotag™ NOS2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	NOS2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IF,WB,IHC-p,ELISA
Recommended Dilution	IF: 1:50-200 WB 1:500-2000, ELISA 1:10000-20000 IHC 1:50-300
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from NOS2, at AA range: 90-170
Specificity	NOS2 Polyclonal Antibody detects endogenous levels of NOS2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	NOS2
Accession No.	P35228 P29477 Q06518
Alternate Names	NOS2; NOS2A; Nitric oxide synthase; inducible; Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2

Antibody Specification

Description	nitric oxide synthase 2(NOS2) Homo sapiens 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],
Cell Pathway/ Category	Arginine and proline metabolism,Calcium,Pathways in cancer,Small cell lung cancer,
Protein Expression	Airway epithelium,Articular chondrocyte,Cardiac myocyte,Chondrocyte,Colon adenocarc
Subcellular Localization	intracellular,nucleus,cytoplasm,peroxisome,cytosol,cortical cytoskeleton,perinuclear region of cytoplasm,
Protein 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. Binds SLC9A3R1.,tissue specificity:Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.