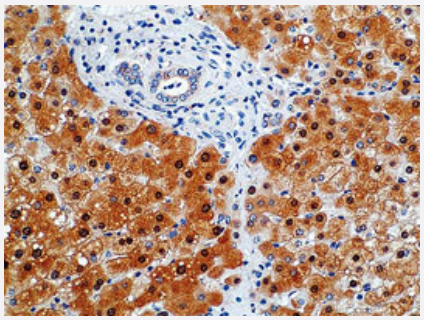
# NOS2 monoclonal antibody, clone K13-A

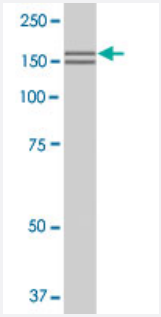
Catalog # MAB1627 Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human liver tissue (4 um) stained with NOS2 monoclonal antibody, clone K13-A (Cat # MAB1627) shows strong positive immunostaining of hepatocytes. Kindly performed and provided by Katarina Poliakova, MD and Lubomir Straka, MD, Ph. D. from Clinical Pathology Presov, Ltd., Presov, Slovak republic.




### Western Blot (Tissue lysate)

NOS2 monoclonal antibody, clone K13-A (Cat # MAB1627). Western blot of NOS2 in mouse brain crude lysate (50 ug of protein loaded).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit monoclonal antibody raised against synthetic peptide of NOS2. |
| **Immunogen** | A synthetic peptide corresponding to human NOS2. |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |
| **Isotype** | IgG |
| **Quality Control Testing** | Antibody Reactive Against Synthetic Peptide. |

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| | |
|---|---|
| **Recommend Usage** | Western Blot (1:2000)<br>ELISA (1:20000-1:50000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 20 mM Tris-HCl, pH 8.0 (10 mg/mL BSA, 0.05% sodium azide) |
| **Storage Instruction** | Store at 4°C. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Formalin-fixed and paraffin-embedded human liver tissue (4 um) stained with NOS2 monoclonal antibody, clone K13-A (Cat # MAB1627) shows strong positive immunostaining of hepatocytes. Kindly performed and provided by Katarina Poliakova, MD and Lubomir Straka, MD, Ph. D. from Clinical Pathology Presov, Ltd., Presov, Slovak republic.

- Immunohistochemistry (Frozen sections)
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Tissue lysate)

  NOS2 monoclonal antibody, clone K13-A (Cat # MAB1627). Western blot of NOS2 in mouse brain crude lysate (50 ug of protein loaded).

## Gene Info — NOS2

| | |
|---|---|
| **Entrez GeneID** | 4843 |
| **Gene Name** | NOS2 |
| **Gene Alias** | HEP-NOS, INOS, NOS, NOS2A |
| **Gene Description** | nitric oxide synthase 2, inducible |
| **Omim ID** | 145500 163730 248310 611162 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | 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 |
| **Other Designations** | NOS, type II\|nitric oxide synthase 2A\|nitric oxide synthase 2A (inducible, hepatocytes)\|nitric oxide synthase, macrophage |

## Publication Reference

- Automated Synthesis and Initial Evaluation of (4'-Amino-5',8'-difluoro-1'H-spiro[piperidine-4,2'-quinazolin]-1-yl)(4-[ 18 F]fluorophenyl)methanone for PET/MR Imaging of Inducible Nitric Oxide Synthase.

  Skye Hsin-Hsien Yeh, Wen-Sheng Huang, Chuang-Hsin Chiu, Chuan-Lin Chen, Hui-Ting Chen, Dae Yoon Chi, Zhengxing Ge, Tsung-Hsun Yu, Pao-Yeh Wang, Yu-Yeh Kuo, Chun-Tse Hung, Geng-Ying Li, Chi-Wei Chang.

  Molecular Imaging 2021 Jul; 2021:9996125.

  Application: IHC-P, Mouse, Mouse brain

## Pathway

- Amyotrophic lateral sclerosis (ALS)
- Arginine and proline metabolism
- Calcium signaling pathway
- Long-term depression
- Metabolic pathways
- Pathways in cancer
- Small cell lung cancer

## Disease

- Acute Disease
- Adenocarcinoma
- Albuminuria
- Alzheimer disease

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- Anemia
- Angina
- Angina Pectoris
- Arthritis
- Asthma
- Autistic Disorder
- Barrett Esophagus
- Behcet Syndrome
- beta-Thalassemia
- Biliary Tract Neoplasms
- Birth Weight
- Brain Infarction
- Brain Ischemia
- Brain Neoplasms
- Bronchial Hyperreactivity
- Bronchiolitis
- Brucellosis
- Carcinoma
- Cardiovascular Diseases
- Cerebral Palsy
- Chagas Disease
- Chlamydia Infections
- Chorioamnionitis
- Cluster Headache

- Cognition

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- Cognition Disorders
- Colitis
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Cystic Fibrosis
- Death
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Disease Progression
- Disease Susceptibility
- Ductus Arteriosus
- Edema
- Erythema Nodosum
- Esophageal Achalasia
- Esophageal Neoplasms
- Esophagitis
- Fetal Membranes
- Fibrosis
- Gastritis
- Genetic Diseases
- Genetic Predisposition to Disease

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- Glaucoma
- Glioblastoma
- Glioma
- Glucosephosphate Dehydrogenase Deficiency
- Guillain-Barre Syndrome
- Helicobacter Infections
- Hepatitis
- Hepatitis C
- HIV Infections
- Hypersensitivity
- Hypertension
- Infant
- Inflammation
- Inflammatory Bowel Diseases
- Intracranial Aneurysm
- Kidney Diseases
- Kidney Failure
- Leukemia
- Lewy Body Disease
- Liver Cirrhosis
- Lung Neoplasms
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Maduromycosis
- Malaria

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- Melanoma
- Meningeal Neoplasms
- Meningioma
- Mental Disorders
- Metabolic Syndrome X
- Migraine Disorders
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Myocardial Ischemia
- Nasal Polyps
- Neoplasms
- Neovascularization
- Nephritis
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Osteomyelitis
- Osteoporosis
- Otitis Media
- Ovarian cancer
- Ovarian Neoplasms
- Pain
- Papillomavirus Infections
- Parasitemia
- Parkinson Disease

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- Pneumococcal Infections
- Postoperative Complications
- Precancerous Conditions
- Pre-Eclampsia
- Premature Birth
- Priapism
- Prostate cancer
- Prostatic Neoplasms
- Psoriasis
- Pulmonary Disease
- Purpura
- Radiation Injuries
- Radiation Pneumonitis
- Recurrence
- Respiratory Syncytial Virus Infections
- Sarcoidosis
- Scleroderma
- Sickle Cell Trait
- Silicosis
- Skin Neoplasms
- Spinal Dysraphism
- Stomach Neoplasms
- Stroke
- Temporal Arteritis
- Thalassemia
- Trachoma

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- Tuberculosis
- Urinary Bladder Neoplasms
- Urologic Neoplasms
- Uterine Cervical Neoplasms
- Viremia
- Werner syndrome

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