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Datasheet for ABIN725675

anti-NOS2 antibody

4 Images

Overview

Quantity:	100 µL
Target:	NOS2
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NOS-2
Isotype:	IgG
Cross-Reactivity:	Chicken, Dog, Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	NOS2
Alternative Name:	iNOS (NOS2 Products)
Background:	Synonyms: i NOS, Nitric Oxide Synthase, Inducible, HEP NOS, Hepatocyte NOS, HEPNOS, Inducible nitric oxide synthase, Inducible NO synthase, Inducible NOS, INOS, Inosl, MAC NOS, Macrophage NOS, Nitric oxide synthase 2 inducible macrophage, Nitric oxide synthase 2A

Target Details

inducible hepatocytes, Nitric oxide synthase inducible, NOS 2, NOS 2A, NOS, Nos II, NOS type II, Nos2, NOS2A.

Background: Nitric oxide (NO) is an inorganic, gaseous free radical that carries a variety of messages between cells. Vasorelaxation, neurotransmission and cytotoxicity can all be potentiated through cellular response to NO. NO production is mediated by members of the nitric oxide synthase (NOS) family. NOS catalyzes the oxidization of L-arginine to produce L-citrulline and NO. Two constitutive isoforms, brain or neuronal NOS (b or nNOS, type I) & endothelial cell NOS (eNOS, type III), and one inducible isoform (iNOS, type II), have been cloned. All NOS isoforms contain calmodulin, nicotinamide adenine dinucleotide phosphate (NADPH), flavin adenine dinucleotide (FAD), and flavin mononucleotide (FMN) binding domains. Nitric oxide synthase is expressed in liver, macrophages, hepatocytes, synoviocytes, stimulated glial cells and smooth muscle cells. Cytokines such as interferon-gamma (IFN), tumor necrosis factor (TNF), interleukin-1 and -2, and lipopolysaccharides (LPS) cause an increase in iNOS mRNA, protein, and activity levels. Protein kinase C-stimulating agents exhibit the same effect on iNOS activity. After cytokine induction, iNOS exhibits a delayed activity response which is then followed by a significant increase in NO production over a long period of time. Human iNOS is regulated by calcium/calmodulin (in contrast with mouse NOS2).

Molecular Weight: 130kDa

Gene ID: 18126

Pathways: [Retinoic Acid Receptor Signaling Pathway](#), [Cellular Response to Molecule of Bacterial Origin](#), [Inositol Metabolic Process](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: WB (1:100-500),IHC-P (1:100-500),IF (p) (1:100-500)

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.

Preservative: Sodium azide

Handling

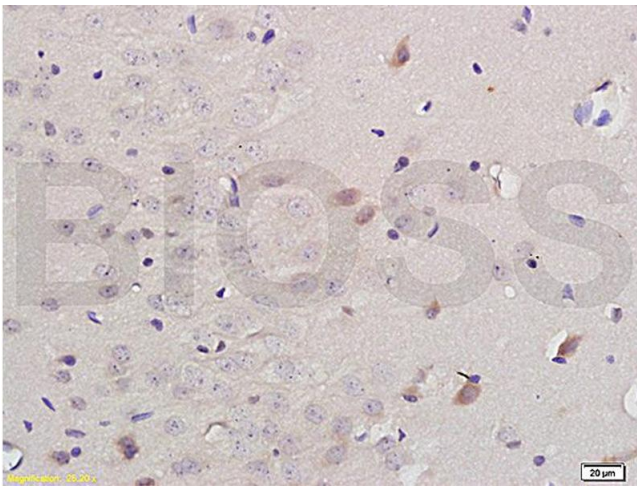
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

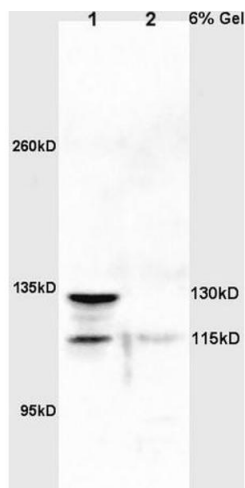
Expiry Date: 12 months

Images



Immunohistochemistry

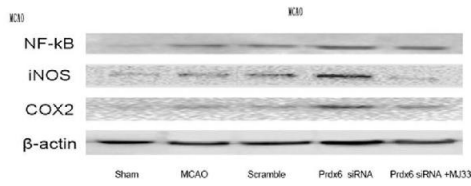
Image 1. Formalin-fixed and paraffin embedded: rat brain tissue labeled with Anti-iNOS Polyclonal Antibody (ABIN725675) , Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. Lane 1: rat lung lysates Lane 2: rat brain lysates probed with Anti NOS-2/iNOS Polyclonal Antibody, Unconjugated (ABIN725675) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 130kD. Observed band size: 115,130kD.

D



Western Blotting

Image 3. Expression of NF-κB, iNOS and COX-2 in response to Prdx6 siRNA and MJ33. Real-time PCR results, representative Western blot bands, and semi-quantitative analyses of NF-κB (A,D,E), iNOS (B,D,F) and COX-2 (C,D,G) in the cortex following MCAO. Results are expressed as the mean ± SEM of three independent experiments. &p < 0.01 vs. Sham, **p < 0.01 vs. Scramble, #p < 0.05, vs. Prdx6 siRNA, ##p < 0.01 vs. Prdx6 siRNA. - figure provided by CiteAb. Source: PMID28424593

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN725675.