

Basic Information

Product Name	Anti-iNOS/NOS2 Antibody
Gene Name	NOS2
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human iNOS (1088-1126aa ARDVAHTLKQLVAAKLKLNEEQVEDYFFQLKSQKRYHED), different from the related mouse sequence by five amino acids, and from the related rat sequence by four amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	133KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Nitric oxide synthase, inducible is an enzyme that in humans is encoded by the NOS2 gene. Nitric oxide (NO) is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter; it is implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. Three different NOS isoforms have been identified which fall into two distinct types, constitutive and inducible. The inducible NOS (iNOS) isoform is expressed in a variety of cell types and tissues in response to inflammatory agents and cytokines. The human iNOS (NOS2) gene is approximately 37 kb in length and consists of 26 exons and 25 introns. NOS2-derived NO is a prerequisite for cytokine signaling and function in innate immunity.

Reference

Anti-iNOS/NOS2 Antibody被引用在2文献中。

Selected Validation Data



Figure 1. Western blot analysis of iNOS using anti-iNOS antibody (A00368). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA whole cell lysates.- iNOS antigen affinity purified polyclonal antibody (Catalog # A00368) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for iNOS at approximately 130KD. The expected band size for iNOS is at 130KD.