



Mouse Anti-Human NOS1 Monoclonal Antibody, clone B22 (CABT-Z739M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Immunogen | Amino acids 2-300 of NOS1 of human origin. |
| Isotype | IgG1, κ |
| Source/Host | Mouse |
| Species Reactivity | Human, Mouse, Rat |
| Clone | B22 |
| Purification | Purified |
| Conjugate | Unconjugated |
| Applications | WB, IP, IF, ELISA Recommended dilution: WB: 1:100-1:1000 IP: 1-2 µg per 100-500 µg of total protein (1 ml of cell lysate) IF: 1:50-1:500 ELISA: 1:30-1:3000 |
| Format | Liquid |
| Concentration | Lot specific |
| Size | 200 µg |
| Buffer | PBS with < 0.1% sodium azide and 0.1% gelatin. |
| Preservative | < 0.1% sodium azide |

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| Storage | Store at 4°C. DO NOT FREEZE. |
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| Ship | Wet ice |
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BACKGROUND

Introduction

The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle, including peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been described for this gene but the full-length nature of these transcripts is not known. Additionally, alternatively spliced transcript variants encoding different isoforms (some testis-specific) have been found for this gene.

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| Keywords | NOS1;nitric oxide synthase 1 (neuronal);NOS;bNOS;nNOS;IHPS1 |
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GENE INFORMATION

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| Gene Name | NOS1 |
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| Entrez Gene ID | 4842 |
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| UniProt ID | A0PJJ7 |
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