

NOS1 (phospho Ser852) rabbit pAb**Cat#: orb769272 (Manual)**

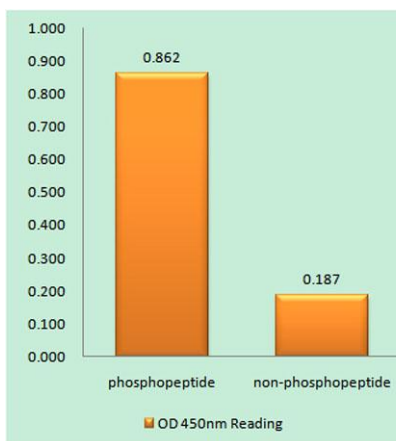
For research use only. Not intended for diagnostic use.

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| Product Name | NOS1 (phospho Ser852) rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat;Monkey |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human n-NOS around the phosphorylation site of Ser852. AA range:818-867 |
| Specificity | Phospho-NOS1 (S852) Polyclonal Antibody detects endogenous levels of NOS1 protein only when phosphorylated at S852. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Nitric oxide synthase brain |
| Gene Name | NOS1 |
| Cellular localization | Cell membrane, sarcolemma; Peripheral membrane protein. Cell projection, dendritic spine . In skeletal muscle, it is localized beneath the sarcolemma of fast-twitch muscle fiber by associating with the dystrophin glycoprotein complex. In neurons, enriched in dendritic spines (By similarity). . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

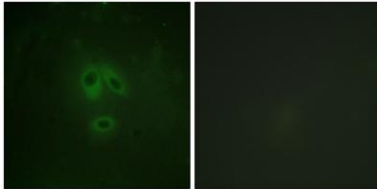
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|--------------------------------|---|
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 130-160kD |
| Human Gene ID | 4842 |
| Human Swiss-Prot Number | P29475 |
| Alternative Names | NOS1; Nitric oxide synthase; brain; Constitutive NOS; NC-NOS; NOS type I; Neuronal NOS; N-NOS; nNOS; Peptidyl-cysteine S-nitrosylase NOS1; bNOS |

Background

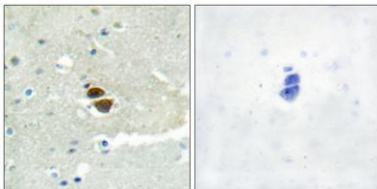
The protein encoded by this gene belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. 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



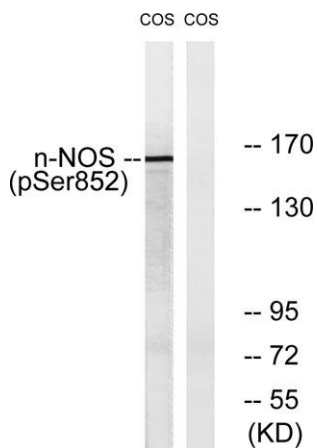
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using n-NOS (Phospho-Ser852) Antibody



Immunofluorescence analysis of HeLa cells, using n-NOS (Phospho-Ser852) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using n-NOS (Phospho-Ser852) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from A549 cells, using n-NOS (Phospho-Ser852) Antibody. The lane on the right is blocked with the phospho peptide.