

## Product datasheet for **TA302749**

### Nos1 Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 0.1-0.3 ug/ml IHC: 5µg/ml
Reactivity:	Human, Mouse (Expected from sequence similarity: Rat, Dog, Cow)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-ESKKDTDEVFSS, from the C Terminus of the protein sequence according to NP_000611.1.
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	nitric oxide synthase 1, neuronal
Database Link:	<a href="#">NP_032738</a> <a href="#">Entrez Gene 4842 Human</a> <a href="#">Entrez Gene 24598 Rat</a> <a href="#">Entrez Gene 477498 Dog</a> <a href="#">Entrez Gene 18125 Mouse</a> <a href="#">Q9Z0J4</a>



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**Background:**

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. NO is also responsible for endothelium-derived relaxing factor activity regulating blood pressure. In macrophages, NO mediates tumoricidal and bactericidal actions, as indicated by the fact that inhibitors of NO synthase (NOS) block these effects. Neuronal NOS and macrophage NOS (MIM 163730) are distinct isoforms (Lowenstein et al., 1992 [PubMed 1379716]). Both the neuronal and the macrophage forms are unusual among oxidative enzymes in requiring several electron donors: FAD (see MIM 610595), flavin mononucleotide (FMN), NADPH, and tetrahydrobiopterin. [supplied by OMIM]

**Synonyms:**

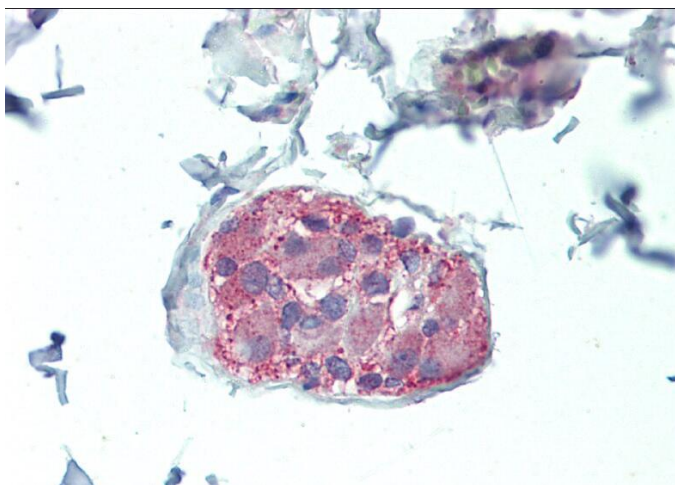
bNOS; IHPS1; N-NOS; NC-NOS; nNOS; NOS

**Product images:**

TA302749 (0.1ug/ml) staining of Human Skeletal Muscle lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Anti-NOS1 antibody (0.1ug/ml) staining of Human Skeletal Muscle lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



TA302749 (5ug/ml) staining of paraffin embedded Human Colon. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.