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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB05259 - Goat Anti-NOS1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** NOS1, nitric oxide synthase 1 (neuronal), NOS, neuronal nitric oxide synthase, PnNOS, penile neuronal nitric oxide synthase, penile neuronal NOS, IHPS1, nNOS, nitric oxide synthase 1, neuronal

**Official Symbol:** NOS1

**Accession Number(s):** NP\_000611.1; NP\_001191147.1; NP\_001191142.1

**Human GeneID(s):** [4842](#)

### Immunogen

Peptide with sequence C-ESKKDTDEVFSS, from the C Terminus of the protein sequence according to NP\_000611.1; NP\_001191147.1; NP\_001191142.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

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.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:16000.

**IHC:** Cryosections of Mouse Caudate-putamen. Optimal dilution 1:5000.

**Immunofluorescence:** Strong expression of the protein seen in the plasma membrane, cytoplasm and nucleus of HeLa cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of Kelly cells. Recommended concentration: 10ug/ml.

### Species Reactivity

**Tested:** Human, Mouse

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

### Specific Reference

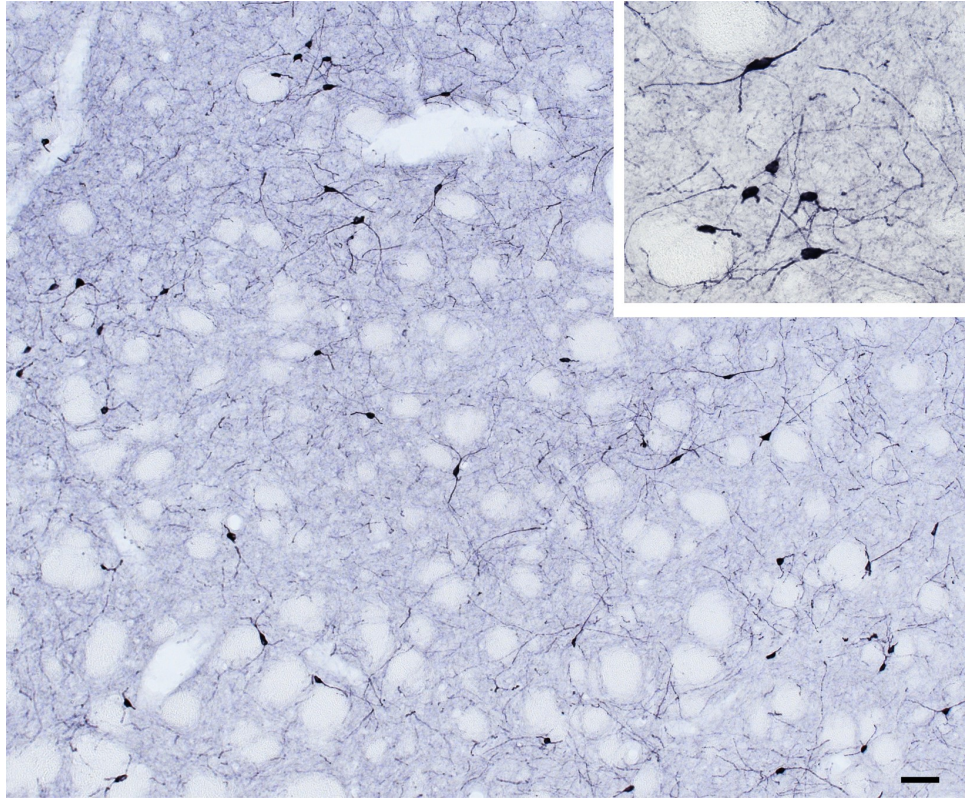
**This antibody (previous batch) has been successfully used in IF on Mouse:**

Fried HU, Kaupp UB, Müller F.

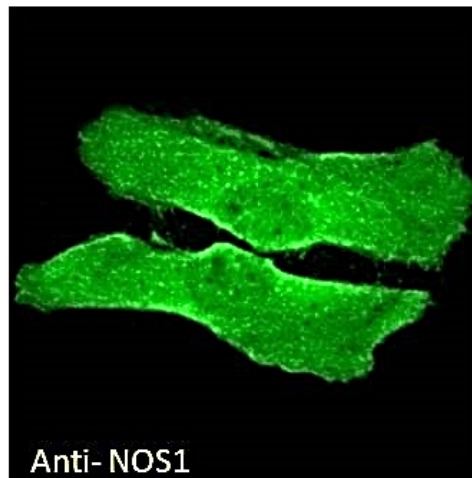
Hyperpolarization-activated and cyclic nucleotide-gated channels are differentially expressed in juxtglomerular cells in the olfactory bulb of mice.

Cell Tissue Res. 2010 Mar;339(3):463-79.

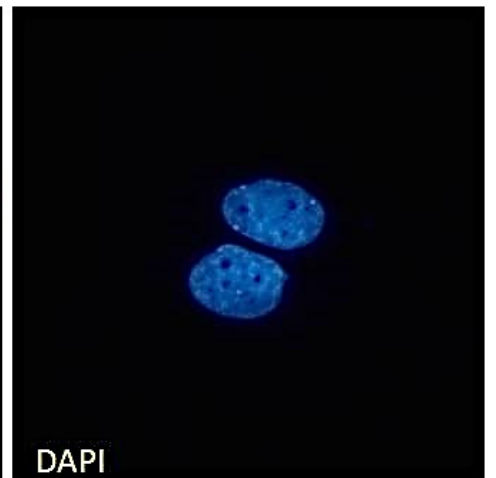
PMID: 20140458



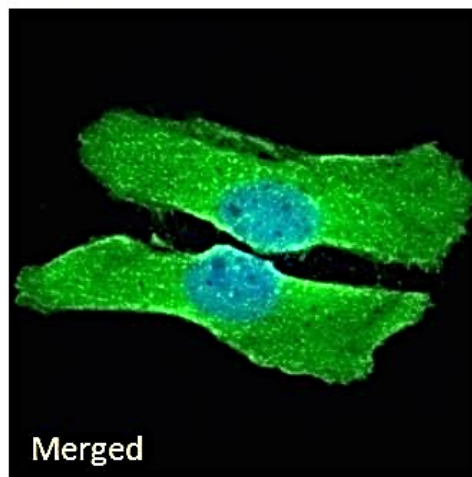
EB05259 (scale bar: 50  $\mu$ m; inset: 20  $\mu$ m) immunostaining of NOS1 neurons in cryosection of a perfusion-fixed (4% PFA) mouse caudate-putamen. HRP-staining with Ni-DAB, after Biotin-SP-anti-goat (IgG) method. Data obtained by Drs. Éva Rumpler and Erik Hrabovszky, Inst, Exp, Med, Budapest, Hungary.



Anti- NOS1



DAPI

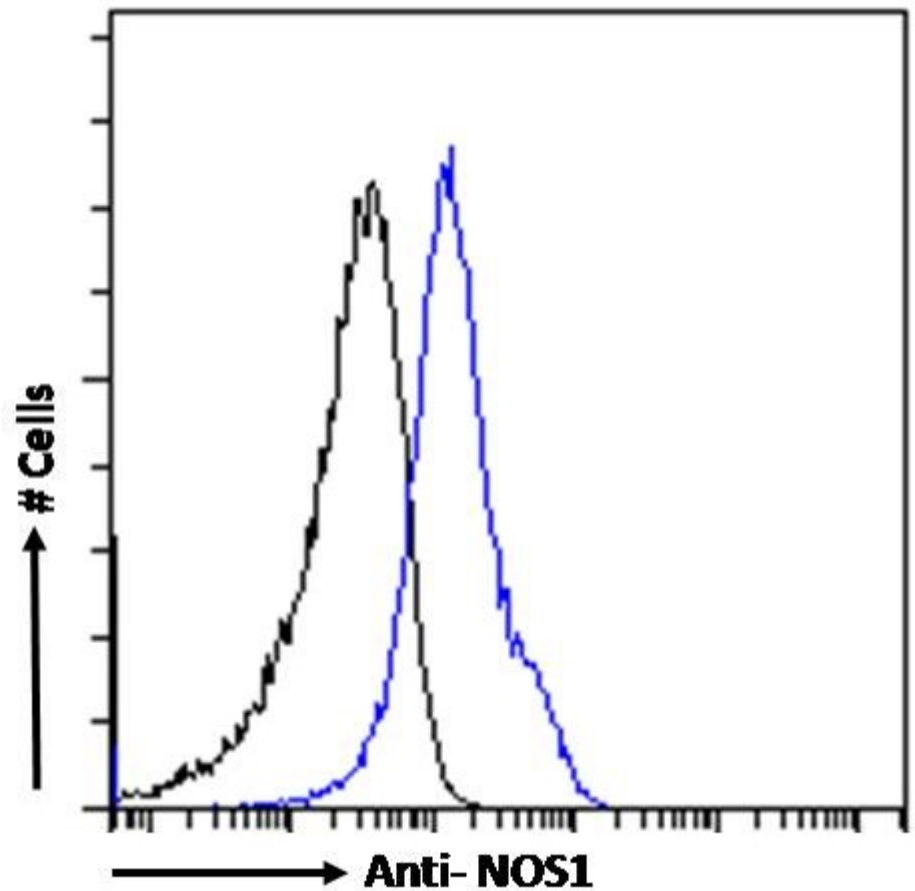


Merged



-ve control

EB05259 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane, cytoplasmic and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05259 Flow cytometric analysis of paraformaldehyde fixed Kelly cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (lack line) followed by Alexa Fluor 488 secondary antibody.