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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 1:32000.

**Western blot:** Approx 150kDa band observed in Human Brain Frontal Cortex and Brain Sub Ventricular Zone lysates (calculated MW of 161kDa according to NP\_000611.1) The observed molecular weight corresponds to earlier findings with different antibodies from other commercial sources. Recommended concentration: 1-2µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Mouse and Rat Brain for this particular batch.

**Immunofluorescence:** Strong expression of the protein seen in the nucleus and plasma membrane of U2OS cells. Recommended concentration: 10µg/ml.

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

### Species Reactivity

**Tested:** Human

**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.

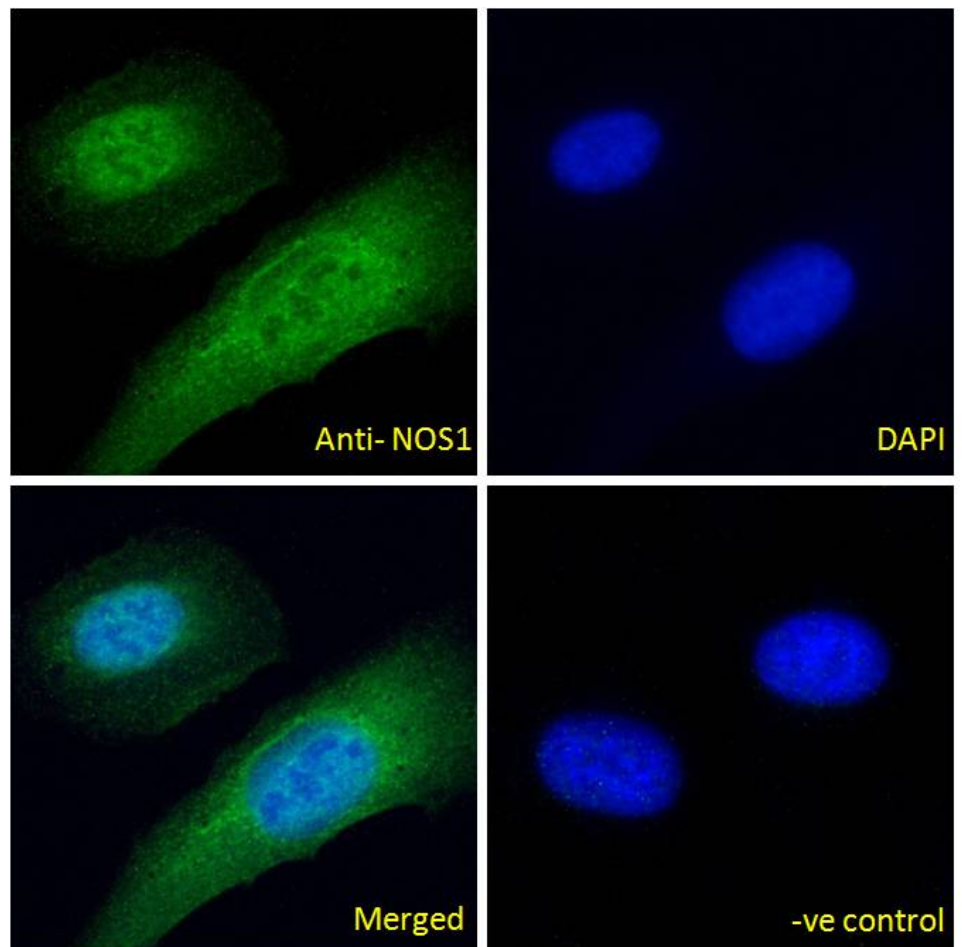
Hyperpolarization-activated and cyclic nucleotide-gated channels are differentially expressed in juxtglomerular cells in the olfactory bulb of mice.

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

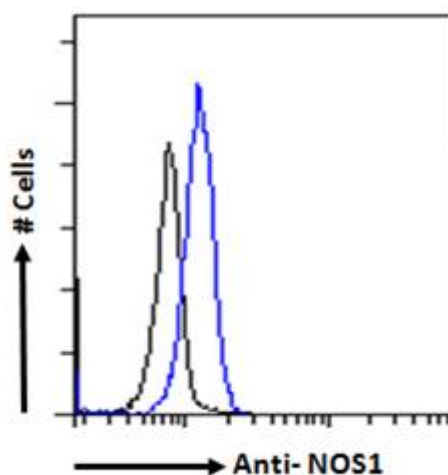
PMID: 20140458



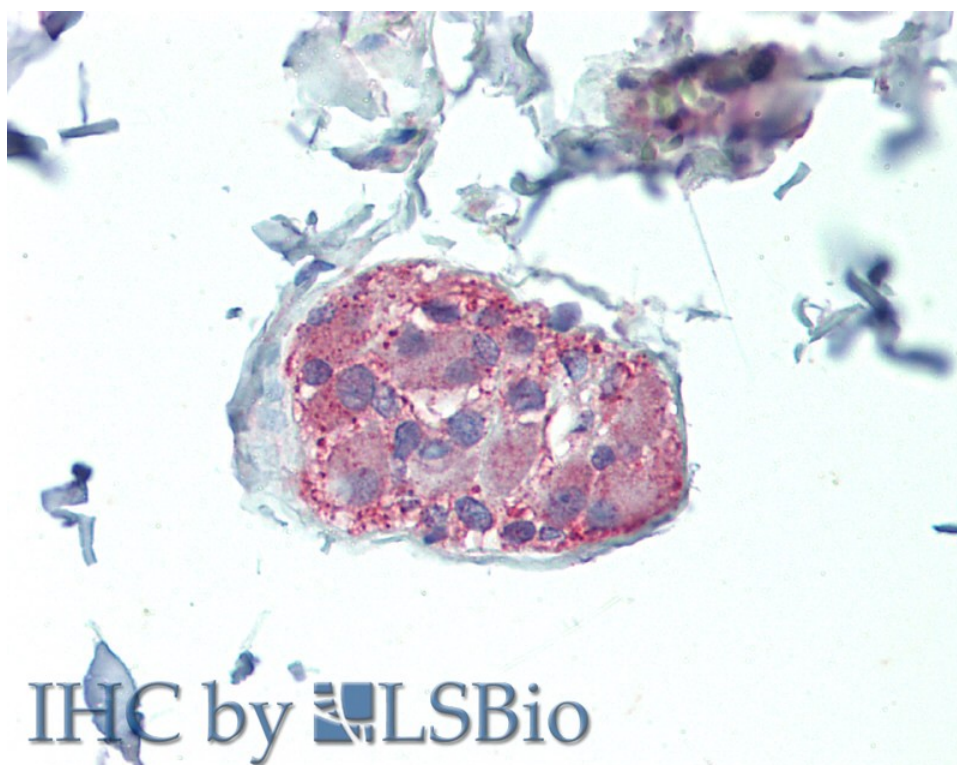
EB05259 (2 $\mu$ g/ml) staining of Human Frontal Cortex (A) and (1 $\mu$ g/ml) Brain Sub Ventricular Zone (B) lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB05259 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing nuclear and Plasma Membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/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 (2ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB05259 (5µg/ml) staining of paraffin embedded Human Colon. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. **This data is from a previous batch, not on sale.**