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EB05259-T - Goat Anti-NOS1 Antibody - Trial

Size: 20µg specific antibody in 40µl

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 1:128000.
Western blot: Approx. 160kDa band observed in Mouse Brain lysates (calculated MW of 160.5kDa according to NP_032738.1). Recommended concentration: 1-2µg/ml. Primary incubation 1 hour at room temperature.
IHC: Cryosections of Human Hypothalamus. Recommended dilution range: 1:10000 - 1:40000.

Immunofluorescence: Strong expression of the protein seen in the nuclei of HeLa and U2OS cells. Recommended concentration: 10µg/ml.

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

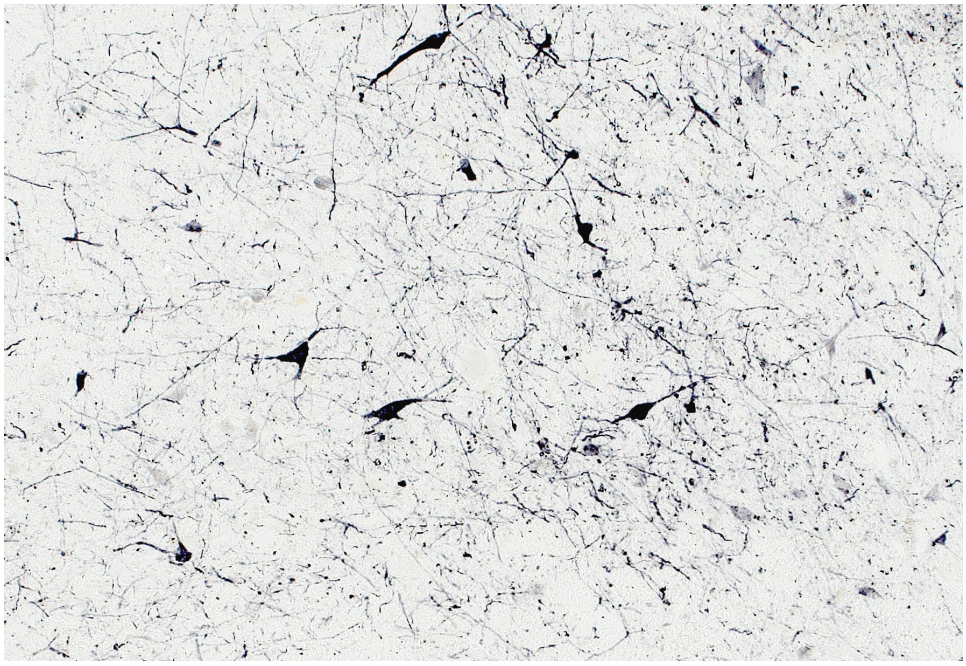
Species Reactivity

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

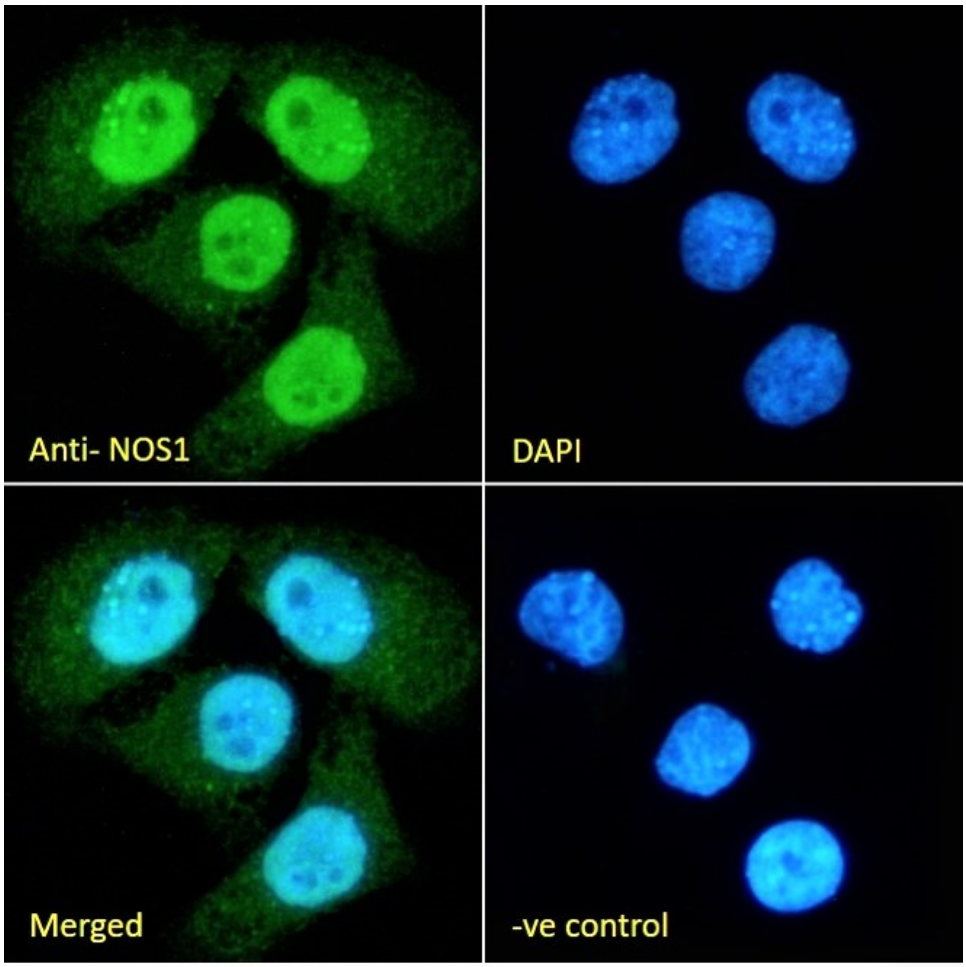
Specific Reference

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 juxtaglomerular cells in the olfactory bulb of mice.
Cell Tissue Res. 2010 Mar;339(3):463-79.
PMID: 20140458

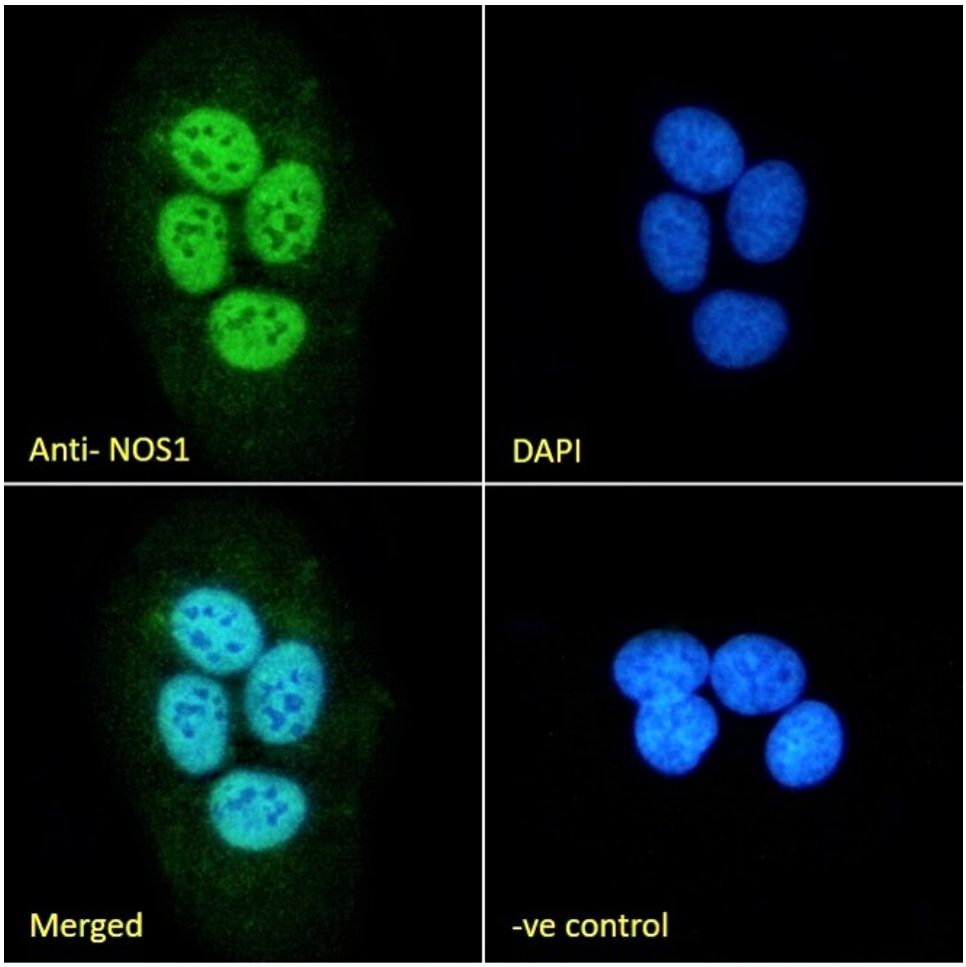
EB05259 (1µg/ml) staining of Mouse Brain lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



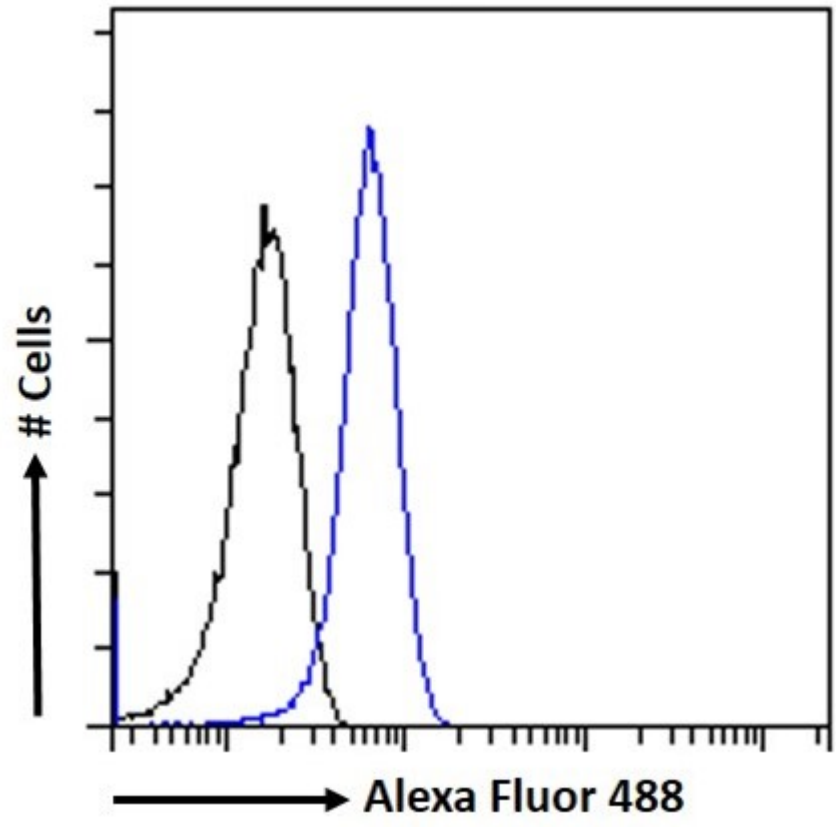
EB05259 Immunostaining of 30 µm thick cryosections of PFA-perfused Human Hypothalamus, antigen retrieval with citrate buffer Ph 6 at 80C for 30 min, HRP-staining with Ni-DAB after Biotin-SP-antigoat amplification. Data obtained by Drs. Szabolcs Takács and Erik Hrabovszky, Inst, Exp, Med, Budapest, Hungary.



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 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 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing 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 HeLa 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 (black line) followed by Alexa Fluor 488 secondary antibody.