

NOSIP (FL-301): sc-67003

BACKGROUND

Endothelial nitric oxide synthase (eNOS) interacting protein (NOSIP) is a modulator of eNOS activity. eNOS is an important nitric oxide (NO)-generating enzyme of the vasculature that is regulated by interactions with caveolin-1, Ca²⁺-calmodulin, HSP 90 and NOSIP. NOSIP modulates this activity by promoting the translocation of eNOS from the plasma membrane to intracellular sites, which in turn inhibits nitric oxide (NO) synthesis. NOSIP is involved in controlling airway and vascular diameter, synthesis of NO in ciliated epithelia and mucosal secretion, and is an important protein for mucociliary and bronchial function. NOSIP is highly expressed in endothelial cells and vascularized tissue.

REFERENCES

1. Dedio, J., et al. 2001. NOSIP, a novel modulator of endothelial nitric oxide synthase activity. *FASEB J.* 15: 79-89.
2. Konig, P., et al. 2002. Distribution of the novel eNOS-interacting protein NOSIP in the liver, pancreas, and gastrointestinal tract of the rat. *Gastroenterology* 123: 314-324.

CHROMOSOMAL LOCATION

Genetic locus: NOSIP (human) mapping to 19q13.33; Nosip (mouse) mapping to 7 B4.

SOURCE

NOSIP (FL-301) is a rabbit polyclonal antibody raised against amino acids 1-301 representing full length NOSIP of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NOSIP (FL-301) is recommended for detection of NOSIP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NOSIP (FL-301) is also recommended for detection of NOSIP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NOSIP siRNA (h): sc-45708, NOSIP siRNA (m): sc-45709, NOSIP shRNA Plasmid (h): sc-45708-SH, NOSIP shRNA Plasmid (m): sc-45709-SH, NOSIP shRNA (h) Lentiviral Particles: sc-45708-V and NOSIP shRNA (m) Lentiviral Particles: sc-45709-V.

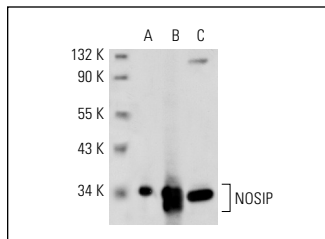
Molecular Weight of NOSIP: 34 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, NOSIP (h): 293T Lysate: sc-112273 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NOSIP (FL-301): sc-67003. Western blot analysis of NOSIP expression in non-transfected 293T: sc-117752 (A), human NOSIP transfected 293T: sc-112273 (B) and HeLa (C) whole cell lysates.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **NOSIP (C-2): sc-365363** or **NOSIP (C-3): sc-137111**, our highly recommended monoclonal alternatives to NOSIP (FL-301).