

NFATc2IP (H-199): sc-135321

BACKGROUND

NFATc2IP (NFATc2-interacting protein), also known as NIP45, is a 419 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one ubiquitin-like domain. Interacting with NFATc2, TRAF1 and TRAF2, NFATc2IP plays a role in the inducible expression of cytokines in T cells, specifically by enhancing NFATc2-induced interleukin (IL) production. NFATc2IP exists as three alternatively spliced isoforms and is subject to post-translational methylation; an event which augments NFATc2IP-regulated cytokine production. The gene encoding NFATc2IP maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

CHROMOSOMAL LOCATION

Genetic locus: NFATC2IP (human) mapping to 16p11.2; Nfatc2ip (mouse) mapping to 7 F3.

SOURCE

NFATc2IP (H-199) is a rabbit polyclonal antibody raised against amino acids 221-419 mapping at the C-terminus of NFATc2IP 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-135321 X, 200 µg/0.1 ml.

APPLICATIONS

NFATc2IP (H-199) is recommended for detection of NFATc2IP 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).

NFATc2IP (H-199) is also recommended for detection of NFATc2IP in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for NFATc2IP siRNA (h): sc-93159, NIP45 siRNA (m): sc-40773, NFATc2IP shRNA Plasmid (h): sc-93159-SH, NIP45 shRNA Plasmid (m): sc-40773-SH, NFATc2IP shRNA (h) Lentiviral Particles: sc-93159-V and NIP45 shRNA (m) Lentiviral Particles: sc-40773-V.

NFATc2IP (H-199) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of NFATc2IP: 45 kDa.

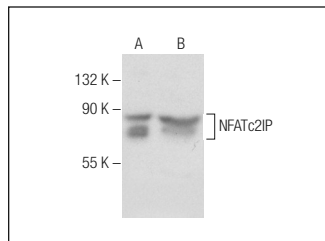
Molecular Weight (observed) of NFATc2IP: 60 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

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



NFATc2IP (H-199): sc-135321. Western blot analysis of NFATc2IP expression in Jurkat (A) and K-562 (B) 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.



Try **NFATc2IP (B-1): sc-377461** or **NFATc2IP (FT-113): sc-134403**, our highly recommended monoclonal alternatives to NFATc2IP (H-199).