

Niban (E-14): sc-161941

BACKGROUND

Meaning "second" in Japanese, Niban, also known as FAM129A and cell growth-inhibiting gene 39 protein, is a 928 amino acid cytoplasmic protein that regulates phosphorylation of many proteins that are involved in translation regulation, such as eIF2 α , 4E-BP1 and p70 S6 kinase α . Since it ultimately functions as an activator of proteins, Niban has been implicated as a tumor marker for renal carcinoma, thyroid cancer and head and neck squamous cell carcinoma. Endoplasmic reticular stress induced in Niban knockout mice leads to upregulation of eIF2 α and decreased phosphorylation of p70 S6 kinase α and 4E-BP1. Niban suppression eventually leads to apoptosis, therefore illustrating its involvement in the modulation of cell death signaling by regulating translation.

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CHROMOSOMAL LOCATION

Genetic locus: FAM129A (human) mapping to 1q25.3; Fam129a (mouse) mapping to 1 G2.

SOURCE

Niban (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Niban of human origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-161941 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Niban (E-14) is recommended for detection of Niban of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for Niban siRNA (h): sc-78648, Niban siRNA (m): sc-149967, Niban siRNA (r): sc-270300, Niban shRNA Plasmid (h): sc-78648-SH, Niban shRNA Plasmid (m): sc-149967-SH, Niban shRNA Plasmid (r): sc-270300-SH, Niban shRNA (h) Lentiviral Particles: sc-78648-V, Niban shRNA (m) Lentiviral Particles: sc-149967-V and Niban shRNA (r) Lentiviral Particles: sc-270300-V.

Molecular Weight (predicted) of Niban: 103 kDa.

Molecular Weight (observed) of Niban: 151 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

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



MONOS
Satisfation
Guaranteed

Try **Niban (F-10): sc-374636**, our highly recommended monoclonal alternative to Niban (E-14).