**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 eIF2α, 4E-BP1 and p70 S6 kinase. 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 eIF2α and decreased phosphorylation of p70 S6 kinase and 4E-BP1. Niban suppression eventually leads to apoptosis, therefore illustrating its involvement in the modulation of cell death signaling by regulating translation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FAM129A (human) mapping to 1q25.3.

**SOURCE**

Niban (F-10) is a mouse monoclonal antibody raised against amino acids 1-240 mapping at the N-terminus of Niban of human origin.

**PRODUCT**

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

**STORAGE**

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

**APPLICATIONS**

Niban (F-10) is recommended for detection of Niban of human origin by Western Blotting (starting dilution 1:100, 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 1:30-1:300).

Suitable for use as control antibody for Niban siRNA (h): sc-78648, Niban shRNA Plasmid (h): sc-78648-CM and Niban shRNA (h) Lentiviral Particles: sc-78648-V.

Molecular Weight (predicted) of Niban: 103 kDa.

Molecular Weight (observed) of Niban: 151 kDa.

Positive Controls: AML-193 whole cell lysate or U266 whole cell lysate: sc-364800.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Niban Western blot analysis in AML-193 whole cell lysate.](image1)

**RESEARCH USE**

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

**PROTOCOLS**

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