BOSTER
antibody and ELISA experts

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Anti-FAM129B/NIBAN2 Antibody Picoband™

Catalog Number: A09391-2

About NIBAN2

FAM129B/Niban-like protein 1 (family with sequence similarity 129, member B) belongs to a poorly characterized family of Niban proteins that also includes FAM129A/Niban and FAM129C/Niban-like protein 2. FAM129A/Niban is implicated in the ER stress response and is upregulated at the protein level in thyroid carcinoma. FAM129C/Niban-like protein 2 is preferentially expressed in B-cells and is one of five biomarkers upregulated in whole blood from patients with colorectal carcinoma. FAM129B is broadly expressed and has been shown to be a downstream target of B-Raf in melanoma cells. Though FAM129B does not appear to regulate cell growth and division, phosphorylation of FAM129B by B-Raf is essential for the invasive potential of melanoma and non-melanoma cell lines. Deletion of FAM129B in melanoma cells significantly impairs B-Raf/MEK/Erk-dependent invasion into the extracellular matrix.

Overview

Product Name	Anti-FAM129B/NIBAN2 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FAM129B/NIBAN2 Antibody Picoband™ catalog # A09391-2. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q96TA1

Technical Details

Immunogen	E.coli-derived human FAM129B/NIBAN2 recombinant protein (Position: K23-K561).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human Flow Cytometry, 1-3 ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5 ug/ml, Human

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Anti-FAM129B/NIBAN2 Antibody Picoband™ (A09391-2) Images

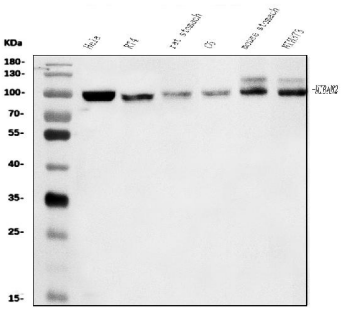

Figure 1. Western blot analysis of FAM129B/NIBAN2 using anti-FAM129B/NIBAN2 antibody (A04887-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human RT4 whole cell lysates,
Lane 3: rat stomach tissue lysates,
Lane 4: rat C6 whole cell lysates,
Lane 5: mouse stomach tissue lysates,
Lane 6: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FAM129B/NIBAN2 antigen affinity purified polyclonal antibody (Catalog # A04887-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FAM129B/NIBAN2 at approximately 95 kDa. The expected band size for FAM129B/NIBAN2 is at 95 kDa.

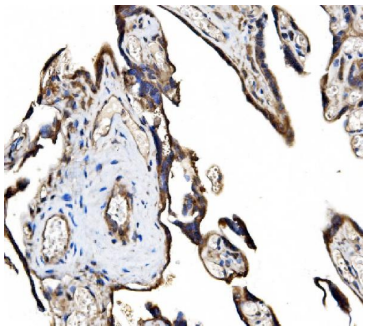

Figure 2. IHC analysis of FAM129B/NIBAN2 using anti-FAM129B/NIBAN2 antibody (A09391-2).
FAM129B/NIBAN2 was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM129B/NIBAN2 Antibody (A09391-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

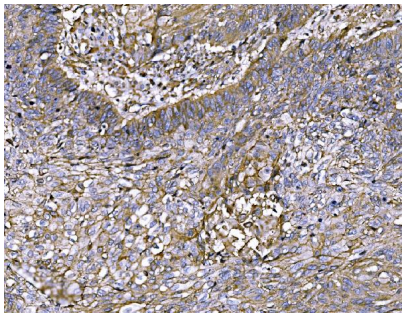

Figure 3. IHC analysis of FAM129B/NIBAN2 using anti-FAM129B/NIBAN2 antibody (A09391-2).
FAM129B/NIBAN2 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM129B/NIBAN2 Antibody (A09391-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the

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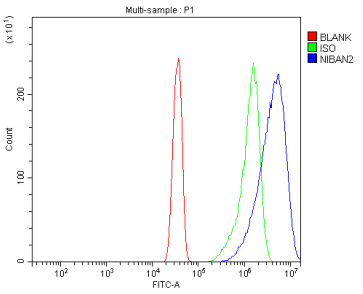

Figure 4. Flow Cytometry analysis of Hela cells using anti-FAM129B/NIBAN2 antibody (A09391-2).
Overlay histogram showing Hela cells stained with A09391-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FAM129B/NIBAN2 Antibody (A09391-2, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.