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antibody and ELISA experts

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Anti-SLUG/SNAI2 Antibody Picoband®

Catalog Number: PB9439

About SNAI2

SLUG is also known as SNAI2. This gene encodes a member of the Snail family of C2H2-type zinc finger transcription factors. The encoded protein acts as a transcriptional repressor that binds to E-box motifs and is also likely to repress E-cadherin transcription in breast carcinoma. This protein is involved in epithelial-mesenchymal transitions and has antiapoptotic activity. Mutations in this gene may be associated with sporatic cases of neural tube defects.

Overview

Product Name	Anti-SLUG/SNAI2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SLUG/SNAI2 Antibody Picoband® catalog # PB9439. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O43623

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SLUG, identical to the related mouse and rat sequences.
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
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.

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Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Rat

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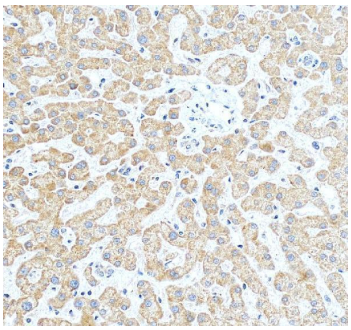
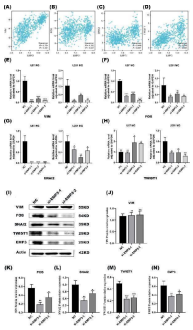
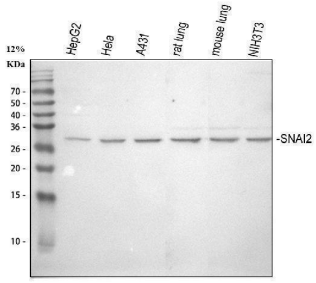
Anti-SLUG/SNAI2 Antibody Picoband® (PB9439) Images



IHC analysis of SNAI2 using anti-SNAI2 antibody (PB9439). SNAI2 was detected in a paraffin-embedded section of human liver 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-SNAI2 Antibody (PB9439) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



EMP3 affects the malignant phenotype of glioblastoma by promoting the EMT process (A)-(D). Correlation analysis of VIM , FOS , SNAI2 , TWIST1 and EMP3 using TCGA data (E)-(H). These related EMT markers were tested by qRT-PCR after the knockdown of EMP3 for 96 h cultured with siRNA. On the other hand, proteins of EMT markers VIM, SNAI2, FOS, TWIST1 were investigated by western blot after EMP3 siRNA transient transfection (I)-(M), Actin as the internal parameter. Cells were divided into three groups, NC (negtive control) group, siRNA EMP3-1 and siRNA EMP3-2 group. U87 cells were lysis after siRNA incubation for 72 h. The efficiency of trasfection of siRNA EMP3 was detected by WB (N). All of the full-length blots/gels of western blot are presented in Supplementary Figure C-H. * p



Western blot analysis of SNAI2 using anti-SNAI2 antibody (PB9439). 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 HepG2 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: rat lung tissue lysates, Lane 5: mouse lung 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-SNAI2 antigen affinity purified polyclonal antibody (Catalog # PB9439) 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 SNAI2 at approximately 30 kDa. The expected band size for SNAI2 is at 30 kDa.

IHC analysis of SNAI2 using anti-SNAI2 antibody (PB9439).

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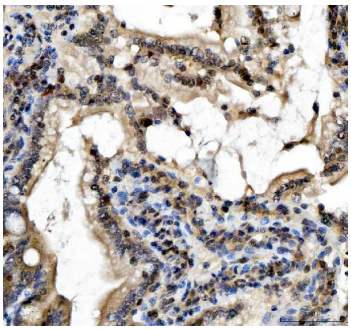

SNAI2 was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SNAI2 Antibody (PB9439) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

5 Publications Citing This Product

1. PubMed ID: 10.3892/ijmm.2021.5071, Microrchidia family CW□type zinc finger 2 promotes the proliferation, invasion, migration and epithelial□mesenchymal transition of glioma by regulating PTEN/PI3K/AKT signaling via binding to N□myc downstream regulated gene 1 promoter

2. PubMed ID: 10.3892/ol.2021.12445, Expression of Twist, Slug and Snail in esophageal squamous cell carcinoma and their prognostic significance

3. PubMed ID: 10.1007/s11033-016-4038-3, Phenotype transformation of immortalized NCM460 colon epithelial cell line by TGF-beta1 is associated with chromosome instability

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