

Anti-SNF5/SMARCB1 Antibody Picoband®

Catalog Number: A00500-2

About SMARCB1

SMARCB1(SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1), also known as SNF5, INI1 or MALIGNANT RHABDOID TUMOR SUPPRESSOR, is a protein that in humans is encoded by the SMARCB1 gene. The SMARCB1 gene encodes a subunit of the SWI/SNF ATP-dependent chromatin-remodeling complex. The SMARCB1 gene maps to chromosome 22q11.2(Versteeg et al., 1998). Wu et al.(2002) noted that GADD34(PPP1R15A) and SNF5 can coexist in a trimeric complex with chimeric leukemic HRX(MLL) fusion proteins, leading to inhibition of GADD34-mediated apoptosis. By mutation analysis, they showed that the GADD34 region homologous to the HSV-1 ICP34.5 protein was necessary for interaction with SNF5. SNF5 could bind independently with the protein phosphatase-1(PP1) catalytic subunit(PPP1CA) and stimulate its activity in solution and in complex with GADD34. SNF5 and PP1 did not compete for GADD34 binding, but rather formed a stable trimeric complex with GADD34. Wu et al.(2002) proposed that GADD34 mediates growth suppression, at least in part, through its interaction with SNF5. They suggested that SNF5 may function as a regulatory subunit of PP1, either independently or together with GADD34.

Overview

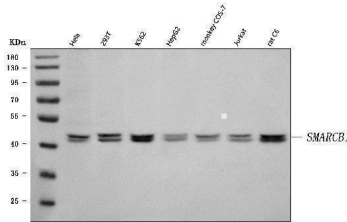
Product Name	Anti-SNF5/SMARCB1 Antibody Picoband®
Reactive Species	Human, Monkey, Rat
Description	Boster Bio Anti-SNF5/SMARCB1 Antibody Picoband® catalog # A00500-2. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Monkey, Rat. The brand Picoband indicates this is a 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q12824

Technical Details

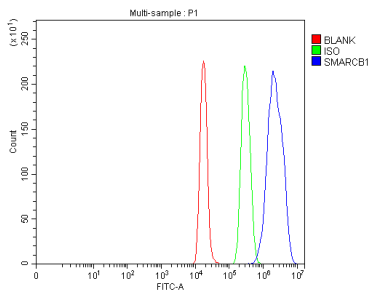
Immunogen	E.coli-derived human SNF5/SMARCB1 recombinant protein (Position: E105-D358).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human, Monkey, Rat Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Rat ELISA, 0.1-0.5 µg/ml, -

Anti-SNF5/SMARCB1 Antibody Picoband® (A00500-2) Images



Western blot analysis of SNF5/SMARCB1 using anti-SNF5/SMARCB1 antibody (A00500-2). 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 293T whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: monkey COS-7 whole cell lysates, Lane 6: human Jurkat whole cell lysates, Lane 7: rat C6 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-SNF5/SMARCB1 antigen affinity purified polyclonal antibody (Catalog # A00500-2) 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 SNF5/SMARCB1 at approximately 44 kDa. The expected band size for SNF5/SMARCB1 is at 44 kDa.



Flow Cytometry analysis of C6 cells using anti-SNF5/SMARCB1 antibody (A00500-2). Overlay histogram showing C6 cells stained with A00500-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SNF5/SMARCB1 Antibody (A00500-2, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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