

Anti-MADH7/SMAD7 Antibody Picoband™

Catalog Number: A00784-1

About SMAD7

Mothers against decapentaplegic homolog 7 or SMAD7 is a protein that in humans is encoded by the SMAD7 gene. The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-MADH7/SMAD7 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-MADH7/SMAD7 Antibody Picoband™ catalog # A00784-1. Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
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	O15105

Technical Details

Immunogen	E.coli-derived human MADH7/SMAD7 recombinant protein (Position: R353-Q388).
Predicted Reactive Species	Human
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 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used: Western blot, 0.25-0.5ug/ml, Human Direct ELISA, 0.1-0.5ug/ml, Human</p>

Anti-MADH7/SMAD7 Antibody Picoband™ (A00784-1) Images

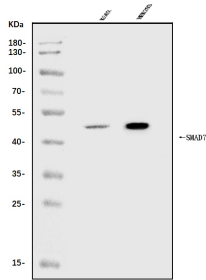


Figure 1. Western blot analysis of MADH7/SMAD7 using anti-MADH7/SMAD7 antibody (A00784-1).

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 30ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,
Lane 2: human HEK293 whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-MADH7/SMAD7 antigen affinity purified polyclonal antibody (Catalog # A00784-1) 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 MADH7/SMAD7 at approximately 50KD. The expected band size for MADH7/SMAD7 is at 50KD.

2 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0153409, Hydroxysafflor Yellow A Ameliorates Renal Fibrosis by Suppressing TGF-beta1-Induced Epithelial-to-Mesenchymal Transition

2. PubMed ID: 10.1016/j.jep.2019.112404, Astragaloside IV inhibits cardiac fibrosis via miR-135a-TRPM7-TGF-beta/Smads pathway

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