BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IFITM1 Antibody Picoband®

Catalog Number: A02633-1

About IFITM1

Interferon-induced Transmembrane Protein 1 (IFITM1), also called Interferon-induced Protein 17 (IFI17). IFITM1 activity is required for primordial germ cells (PGCs) transit from the mesoderm into the endoderm, and that it appears to act via a repulsive mechanism, such that PGCs avoid Ifitm1-expressing tissues. It is mapped to Chr.11 and belongs to the family of interferon-induced transmembrane proteins (Ifitm/mil/fragilis), which encodes cell surface proteins that may modulate cell adhesion and influence cell differentiation. Interferon-inducible membrane proteins of approximately 17 kDa have been suggested to play a role in the antiproliferative activity of interferons based on their pattern of induction in interferon-sensitive and -resistant cell lines and the ability of a membrane fraction enriched in 17-kDa proteins to inhibit cell growth.

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Overview

Product Name	Anti-IFITM1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-IFITM1 Antibody Picoband® catalog # A02633-1. Tested in WB applications. This antibody reacts with Human. 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	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	P13164

Technical Details

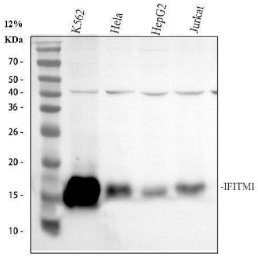
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human IFITM1.

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Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) 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	Western blot, 0.25-0.5ug/ml, Human

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Anti-IFITM1 Antibody Picoband® (A02633-1) Images



Western blot analysis of IFITM1 using anti-IFITM1 antibody (A02633-1). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human Jurkat 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-IFITM1 antigen affinity purified polyclonal antibody (A02633-1) 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for IFITM1 at approximately 14-17 kDa. The expected band size for IFITM1 is at 14 kDa.

2 Publications Citing This Product

1. PubMed ID: 10.1038/sj.onc.1209807, IFITM1 plays an essential role in the antiproliferative action of interferon- gamma

2. PubMed ID: 10.1158/1078-0432.CCR-07-4761, IFN-Induced Transmembrane Protein 1 Promotes Invasion at Early Stage of Head and Neck Cancer Progression

Visit bosterbio.com/anti-ifitm1-picoband-trade-antibody-a02633-1-boster.html to see all 2 publications.

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