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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-FNDC3B Antibody Picoband®

Catalog Number: A06614-1

About FNDC3B

Enables RNA binding activity. Predicted to act upstream of or within several processes, including negative regulation of osteoblast differentiation; substrate adhesion-dependent cell spreading; and type II pneumocyte differentiation. Predicted to be located in endoplasmic reticulum.

Overview

Product Name	Anti-FNDC3B Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FNDC3B Antibody Picoband® catalog # A06614-1. Tested in WB, IP, Flow Cytometry 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	Flow Cytometry, IP, 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	Q53EP0

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human FNDC3B.
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, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human

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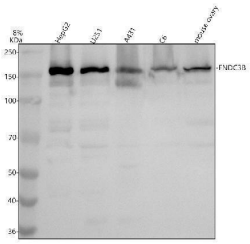
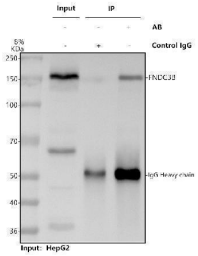
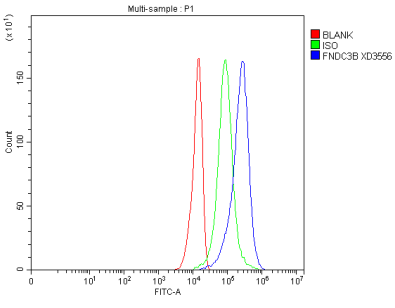
Anti-FNDC3B Antibody Picoband® (A06614-1) Images



Western blot analysis of FNDC3B using anti-FNDC3B antibody (A06614-1). Electrophoresis was performed on a 8% 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 HepG2 whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse ovary tissue 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-FNDC3B antigen affinity purified polyclonal antibody (A06614-1) 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 FNDC3B at approximately 160 kDa. The expected band size for FNDC3B is at 133 kDa.



Immunoprecipitating FNDC3B in HepG2 whole cell lysate. Western blot analysis of FNDC3B using anti-FNDC3B antibody (A06614-1). Lane 1: HepG2 whole cell lysates (30ug), Lane 2: Rabbit control IgG instead of anti-FNDC3B antibody in HepG2 whole cell lysate, Lane 3: anti-FNDC3B antibody (2ug) + HepG2 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-FNDC3B antigen affinity purified polyclonal antibody (A06614-1) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for FNDC3B at approximately 160 kDa. The expected band size for FNDC3B is at 133 kDa.



Flow Cytometry analysis of U251 cells using anti-FNDC3B antibody (A06614-1). Overlay histogram showing U251 cells stained with A06614-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-FNDC3B Antibody (A06614-1, 1 ug/1x106 cells) for 30 min at 20°C. Fluoro488 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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Anti-FNDC3B Antibody

For Research Use Only. Not for use in diagnostic procedures.