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Anti-OFD1 Antibody Picoband™

Catalog Number: A02955-1

About OFD1

Oral-facial-digital syndrome 1 protein is a protein that in humans is encoded by the OFD1 gene. This gene is mapped to Xp22.2. This gene is located on the X chromosome and encodes a centrosomal protein. A knockout mouse model has been used to study the effect of mutations in this gene. The mouse gene is also located on the X chromosome, however, unlike the human gene it is not subject to X inactivation. Mutations in this gene are associated with oral-facial-digital syndrome type I and Simpson-Golabi-Behmel syndrome type 2. Many pseudogenes have been identified; a single pseudogene is found on chromosome 5 while as many as fifteen have been found on the Y chromosome.

Overview

Product Name	Anti-OFD1 Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-OFD1 Antibody Picoband™ catalog # A02955-1. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Mouse.
Application	Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	O75665

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human OFD1, which shares 75.9% and 86.2% amino acid (aa) sequence identity with mouse and rat OFD1, respectively.
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.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5ug/ml, Human, Mouse Flow Cytometry, 1-3ug/1x10^6 cells, Human

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Anti-OFD1 Antibody Picoband™ (A02955-1) Images

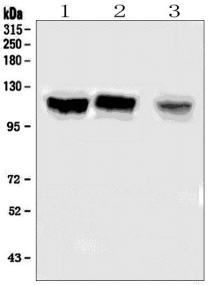

Figure 1. Western blot analysis of OFD1 using anti-OFD1 antibody (A02955-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human HL-60 whole cell lysates,
Lane 2: human Caco-2 whole cell lysates,
Lane 3: mouse heart tissue 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-OFD1 antigen affinity purified polyclonal antibody (Catalog # A02955-1) 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 OFD1 at approximately 117KD. The expected band size for OFD1 is at 117KD.

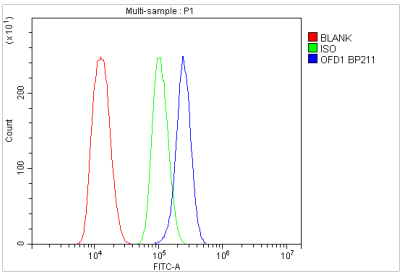

Figure 2. Flow Cytometry analysis of THP-1 cells using anti-OFD1 antibody (A02955-1).
Overlay histogram showing THP-1 cells stained with A02955-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OFD1 Antibody (A02955-1, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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