

Anti-Vinculin/VCL Antibody Picoband™

Catalog Number: A01207

About VCL

Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.

Overview

Product Name	Anti-Vinculin/VCL Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Vinculin/VCL Antibody Picoband™ catalog # A01207. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg 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	P18206

Technical Details

Immunogen	E.coli-derived human Vinculin recombinant protein (Position: E930-Q1134). Human Vinculin shares 87.7% amino acid (aa) sequence identity with both mouse and rat Vinculin.
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:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

Anti-Vinculin/VCL Antibody Picoband™ (A01207) Images

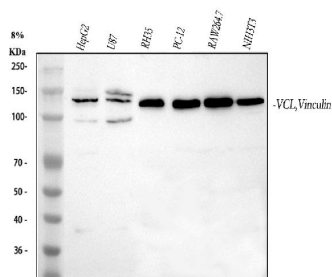


Figure 1. Western blot analysis of Vinculin using anti-Vinculin antibody (A01207).

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 HepG2 whole cell lysates,

Lane 2: human U87 whole cell lysates,

Lane 3: rat RH35 whole cell lysates,

Lane 4: rat PC-12 whole cell lysates,

Lane 5: mouse RAW264.7 whole cell lysates,

Lane 6: mouse NIH/3T3 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-

Vinculin antigen affinity purified polyclonal antibody (Catalog

A01207) 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 Vinculin at approximately 124 kDa.

The expected band size for Vinculin is at 124 kDa.

6 Publications Citing This Product

1. PubMed ID: 30873379, Wang K,Xing ZH,Jiang QW,Yang Y,Huang JR,Yuan ML,Wei MN,Li Y,Wang ST,Liu K,Shi Z.Targeting uPAR by CRISPR/Cas9 System Attenuates Cancer Malignancy and Multidrug Resistance.Front Oncol.2019 Feb 27;9:80.doi:10.3389/fonc.2019.00080.PMID:30873379;PMCID:PMC6400983.

2. PubMed ID: 32247806, Dong Y,Chen Y,Zhu D,Shi K,Ma C,Zhang W,Rocchi P,Jiang L,Liu X.Self-assembly of amphiphilic phospholipid peptide dendrimer-based nanovectors for effective delivery of siRNA therapeutics in prostate cancer therapy.J Control Release.2020 Jun 10;322:416-425.d

3. PubMed ID: 29312635, Yao Q, An Y, Hou W, Cao YN, Yao MF, Ma NN, Hou L, Zhang H, Liu HJ, Zhang B. Oncotarget. 2017 Nov 30;8(65):109632-109645. doi: 10.18632/oncotarget.22759. eCollection 2017 Dec 12. LRP6 promotes invasion and metastasis of colorectal cancer through cy...

Visit bosterbio.com/anti-vinculin-picoband-trade-antibody-a01207-boster.html to see all 6 publications.

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