

## Anti-Vinculin/VCL Antibody

Catalog Number: PA1781

### 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

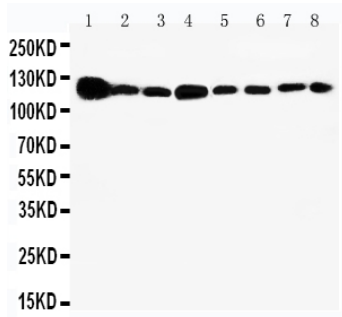
Product Name	Anti-Vinculin/VCL Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Vinculin/VCL Antibody catalog # PA1781. Tested in IHC, WB applications. This antibody reacts with Mouse.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
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	A synthetic peptide corresponding to a sequence at the N-terminus of human Vinculin, identical to the related rat and mouse sequences.
Predicted Reactive Species	Hamster
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse, By Heat</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

## Anti-Vinculin/VCL Antibody (PA1781) Images



Anti-Vinculin antibody, PA1781, Western blotting

Lane 1: Rat Heart Tissue Lysate

Lane 2: Rat Brain Tissue Lysate

Lane 3: Rat Liver Tissue Lysate

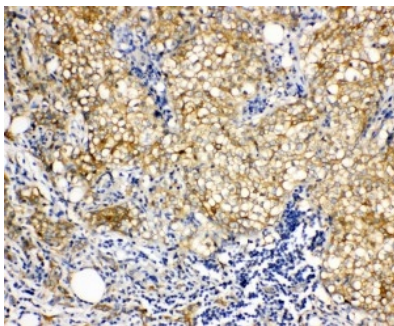
Lane 4: U87 Cell Lysate

Lane 5: SMMC Cell Lysate

Lane 6: HEPA Cell Lysate

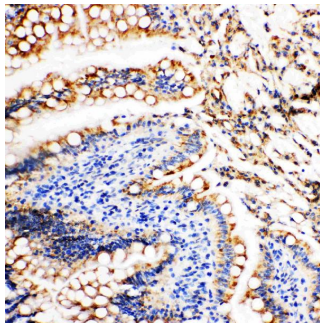
Lane 7: HELA Cell Lysate

Lane 8: HT1080 Cell Lysate



Anti-Vinculin antibody, PA1781, IHC(P)

IHC(P): Human Mammary Cancer Tissue



Anti-Vinculin antibody, PA1781, IHC(P)

IHC(P): Rat Intestine Tissue

## 6 Publications Citing This Product

1. PubMed ID: 25888745, Su F., Liu Ss., Ma JI, Wang Ds, E LI, Liu Hc. Stem Cell Res Ther. 2015 Mar 12;6:22. Doi: 10.1186/S13287-015-0023-3. Enhancement Of Periodontal Tissue Regeneration By Transplantation Of Osteoprotegerin-Engineered Periodontal Ligament Stem Cells.
2. PubMed ID: 25839041, Shen Z, Lu D, Li Q, Zhang Z, Zhu Y. Biomed Res Int. 2015;2015:871202. Doi: 10.1155/2015/871202. Epub 2015 Mar 8. Synthesis And Characterization Of Biodegradable Polyurethane For Hypopharyngeal Tissue Engineering.
3. PubMed ID: 24839204, Lyu Z, Wang H, Wang Y, Ding K, Liu H, Yuan L, Shi X, Wang M, Wang Y, Chen H. Nanoscale. 2014 Jun 21;6(12):6959-69. Doi: 10.1039/C4Nr01540A. Maintaining The Pluripotency Of Mouse Embryonic Stem Cells On Gold Nanoparticle Layers With Nanoscale But N...

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