

Anti-Vinculin VCL Rabbit Monoclonal Antibody

Catalog Number: M01207

About VCL

Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH. Involved in menthol sensation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium.

Overview

Product Name	Anti-Vinculin VCL Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Vinculin VCL Rabbit Monoclonal Antibody catalog # M01207. Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IF, IHC, ICC, WB
Clonality	Monoclonal AIG-22
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P18206

Technical Details

Immunogen	A synthesized peptide derived from human Vinculin
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
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: WB 1:10000-1:20000

	IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50
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Anti-Vinculin VCL Rabbit Monoclonal Antibody (M01207) Images

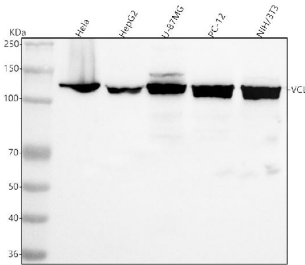


Figure 1. Western blot analysis of Vinculin using anti-Vinculin antibody (M01207).

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 HeLa whole cell lysates,

Lane 2: human HepG2 whole cell lysates,

Lane 3: human U-87MG whole cell lysates,

Lane 4: rat PC-12 whole cell lysates,

Lane 5: 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 monoclonal antibody

(Catalog # M01207) at 1:10000 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 1:500 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.

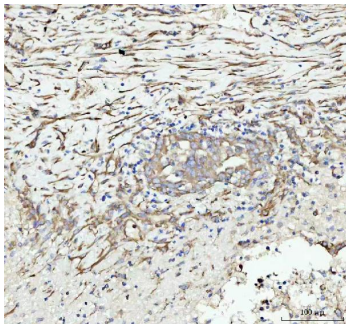


Figure 2. IHC analysis of Vinculin using anti-Vinculin antibody (M01207).

Vinculin was detected in a paraffin-embedded section of

human colorectal adenocarcinoma tissue. Heat mediated

antigen retrieval was performed in EDTA buffer (pH 8.0,

epitope retrieval solution). The tissue section was blocked

with 10% goat serum. The tissue section was then incubated

with 1:50 rabbit anti-Vinculin Antibody (M01207) overnight

at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used

as secondary antibody and incubated for 30 minutes at

37°C. The tissue section was developed using HRP

Conjugated Rabbit IgG Super Vision Assay Kit (Catalog #

SV0002) with DAB as the chromogen.

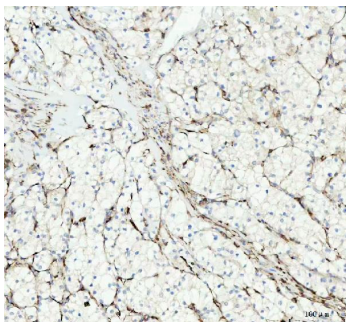


Figure 3. IHC analysis of Vinculin using anti-Vinculin antibody (M01207).

Vinculin was detected in a paraffin-embedded section of

human renal cell carcinoma tissue. Heat mediated antigen

retrieval was performed in EDTA buffer (pH 8.0, epitope

retrieval solution). The tissue section was blocked with 10%

goat serum. The tissue section was then incubated with 1:50

rabbit anti-Vinculin Antibody (M01207) overnight at 4°C.

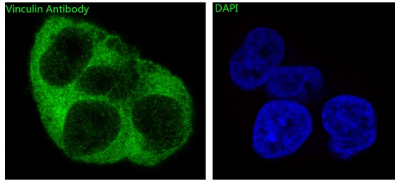
Peroxidase Conjugated Goat Anti-rabbit IgG was used as

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The tissue section was developed using HRP Conjugated

Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with

DAB as the chromogen.



Immunofluorescent analysis of A673 cells, using Vinculin Antibody .

4 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: 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...
3. 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.

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