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# VINC Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7426a

## Product Information

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|---|---|
| **Application** | WB, IHC-P, E |
| **Primary Accession** | P18206 |
| **Other Accession** | P85972, P26234, Q64727, P12003 |
| **Reactivity** | Human, Rat, Mouse |
| **Predicted** | Chicken, Pig, Rat, Bovine, Canine, Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB15469 |
| **Calculated MW** | 123799 |
| **Antigen Region** | 12-39 |

## Additional Information

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|---|---|
| **Gene ID** | 7414 |
| **Other Names** | Vinculin, Metavinculin, MV, VCL |
| **Target/Specificity** | This VINC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-39 amino acids from the N-terminal region of human VINC. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | VINC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | VCL |
| **Function** | Actin filament (F-actin)-binding protein involved in cell- matrix adhesion and cell-cell adhesion. Regulates cell-surface E- cadherin expression and potentiates mechanosensing by the E-cadherin complex. May also play |

important roles in cell morphology and locomotion.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P85972}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q64727}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q64727}; Cytoplasmic side {ECO:0000250|UniProtKB:Q64727}. Cell projection, podosome {ECO:0000250|UniProtKB:Q64727}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q64727}. Note=Recruitment to cell-cell junctions occurs in a myosin II-dependent manner. Interaction with CTNNB1 is necessary for its localization to the cell-cell junctions {ECO:0000250|UniProtKB:P12003}

**Tissue Location**

Metavinculin is muscle-specific.

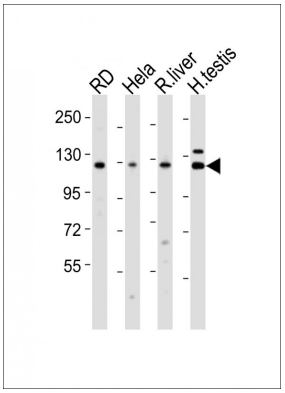
## Background

VINC 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.

## References

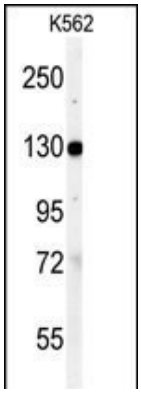
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Sun N., Critchley D.R., Paulin D.Biochem. J. 409:657-667(2008)
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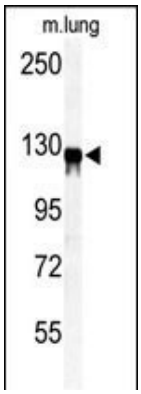
## Images



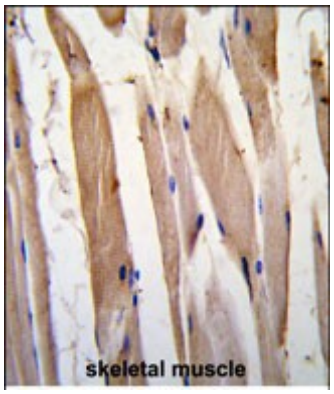

All lanes : Anti-VINC Antibody (N-term) at 1:2000 dilution Lane 1: RD whole cell lysates Lane 2: Hela whole cell lysates Lane 3: rat liver lysates Lane 4: human testis lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 124 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Western blot analysis of anti-VINC Antibody (N-term) (Cat.#AP7426a) in K562 cell line lysates (35ug/lane). VINC (arrow) was detected using the purified Pab.




Western blot analysis of anti-VINC Antibody (N-term) (Cat.#AP7426a) in mouse lung tissue lysates (35ug/lane). VINC (arrow) was detected using the purified Pab.




Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with VINC antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.