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VINC Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7426a

Specification

VINC Antibody (N-term) - Product Information

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

VINC Antibody (N-term) - Additional Information

Gene ID 7414

Other Names
Vinculin, Metavinculin, MV, VCL

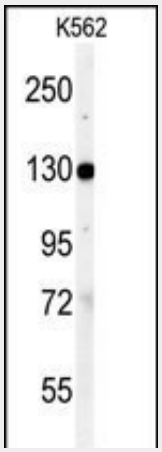
Target/Specificity
This VINC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-39 amino acids from the N-terminal region of human VINC.

Dilution
WB~~1:2000
IHC-P~~1:10~50

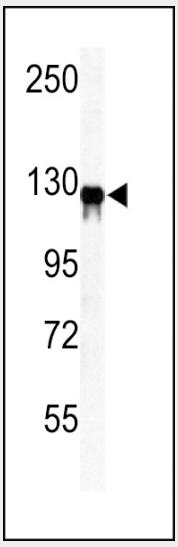
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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



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.

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VINC Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

VINC Antibody (N-term) - Protein Information

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.

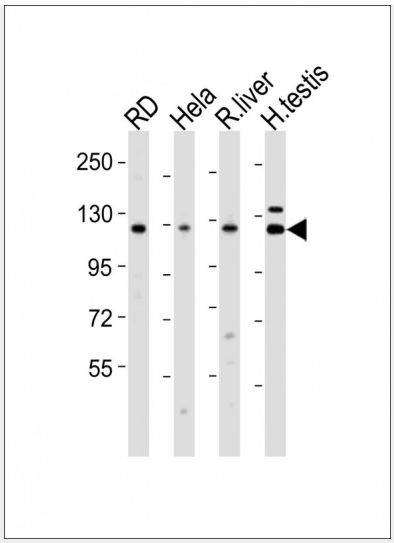
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, 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}. 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.

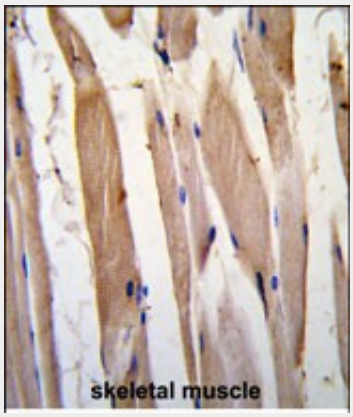
VINC Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry



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.



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.

VINC Antibody (N-term) - 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

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

VINC Antibody (N-term) - References

Moiseyeva E.P., Weller P.A.J. Biol. Chem. 268:4318-4325(1993)
Sun N., Critchley D.R., Paulin D.Biochem. J. 409:657-667(2008)
Izard T., Evans G., Borgon R.A.Nature 427:171-175(2004)