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VINC Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7426a

Specification

VINC Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P18206

VINC Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 7414

Other Names
Vinculin, Metavinculin, MV, VCL

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7426a was selected from the N-term region of human VINC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VINC Antibody (N-term) Blocking Peptide - 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}. Cell projection, podosome {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) Blocking Peptide - Protocols

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

- Blocking Peptides

VINC Antibody (N-term) Blocking Peptide - Images

VINC Antibody (N-term) Blocking Peptide - 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.

VINC Antibody (N-term) Blocking Peptide - 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)