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Anti-Vinculin Antibody
Catalog # ABO11087

Specification

Anti-Vinculin Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P18206
Host	**Rabbit**
Reactivity	**Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Vinculin(VCL) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Vinculin Antibody - Additional Information

Gene ID 7414

Other Names
Vinculin, Metavinculin, MV, VCL

Calculated MW
123799 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cytoplasm, cytoskeleton . Cell junction, adherens junction . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, focal adhesion . Cytoplasmic face of adhesion plaques. 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 (By similarity). Colocalizes with LIMD1 in the focal adhesions. .

Tissue Specificity
Metavinculin is muscle-specific.

Protein Name
Vinculin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Vinculin(173-188aa KMIDERQQELTHQEHR), identical to the related rat and mouse sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the vinculin/alpha-catenin family.

Anti-Vinculin Antibody - 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}. 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.

Anti-Vinculin Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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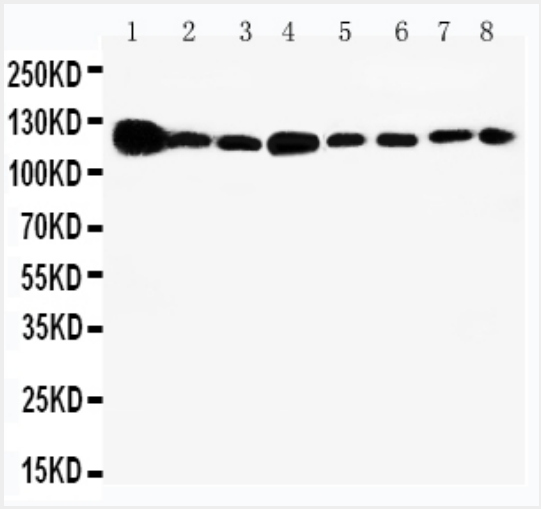
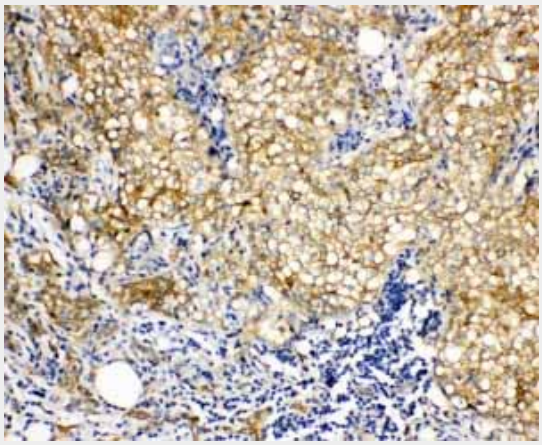
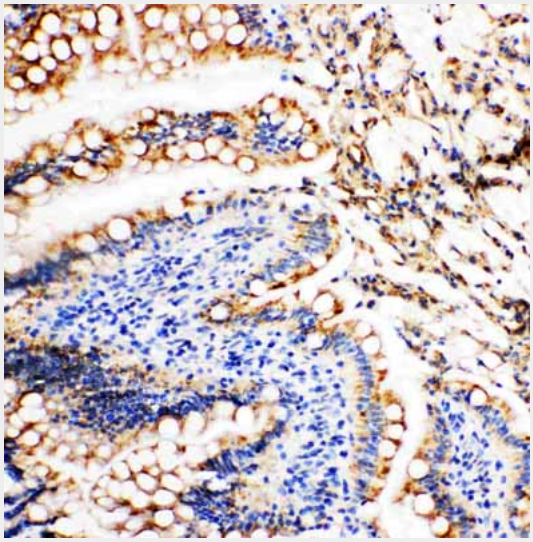
Anti-Vinculin Antibody - Images



Anti-Vinculin antibody, ABO11087, Western blottingLane 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, ABO11087, IHC(P)IHC(P): Human Mammary Cancer Tissue



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Anti-Vinculin antibody, ABO11087, IHC(P)IHC(P): Rat Intestine Tissue

Anti-Vinculin Antibody - Background

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.