

Anti-Vinculin Antibody (Monoclonal, hVIN-1)
Catalog # ABO10486**Specification**

Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Product Information

Application	IHC
Primary Accession	P85972
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for Vinculin, vinculin (VCL) detection. Tested with WB, IHC-F in Human;mouse;rat;chicken. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Additional Information

Gene ID 305679

Other Names

Vinculin, Vcl {ECO:0000250|UniProtKB:P18206}

Calculated MW

116615 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 2-4 µg/ml, Human, chicken, mouse, rat, -
Western blot, 1-2 µg/ml, Human, chicken, mouse, rat

Subcellular Localization

Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, adherens junction . Cell junction, focal adhesion . Cytoplasm, cytoskeleton . 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. .

Tissue Specificity

VCL: Metavinculin is muscle-specific.

Protein Name

Vinculin

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Human vinculin, purified from uterus.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, 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 (Monoclonal, hVIN-1) - Protein Information

Name Vcl {ECO:0000250|UniProtKB:P18206}

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.

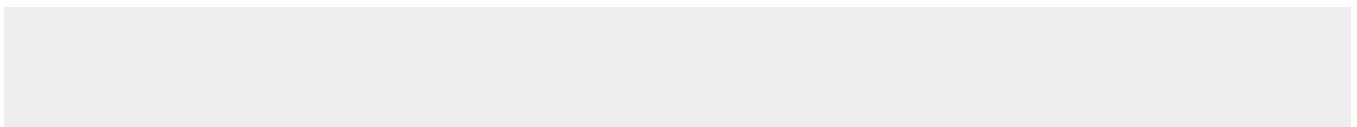
Cellular Location

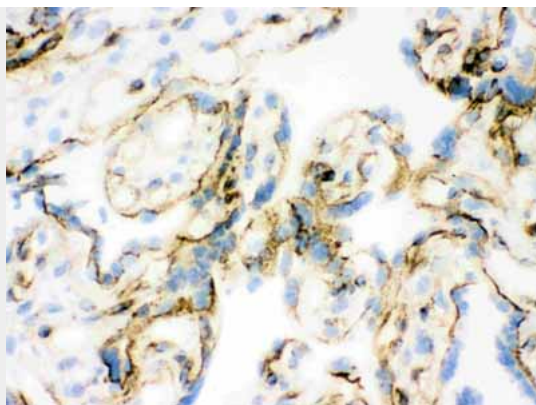
Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, cytoskeleton.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

Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Protocols

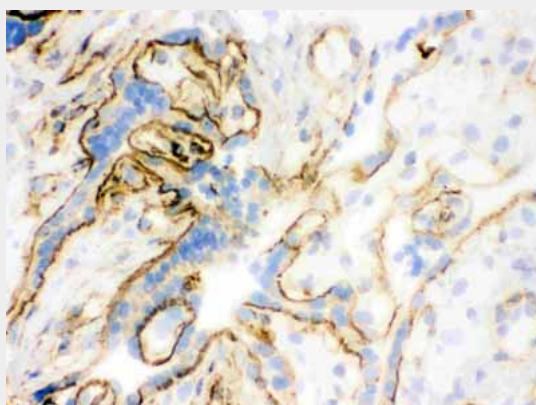
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Images



Anti- Vinculin antibody, ABO10486, IHC(P)IHC(F): Human Placenta Tissue



Anti- Vinculin antibody, ABO10486, IHC(P)IHC(F): Human Placenta Tissue

Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Background

Vinculin is a cytoskeletal protein associated with the cytoplasmic face of both cell-cell and cell-extracellular matrix adherens-type junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Both human and chicken embryo sequences of vinculin contain 1,066 amino acids and, furthermore, that the 2 proteins exhibit a high level of sequence identity (greater than 95%). Vinculin is mapped to 10q22.1-q23.