

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 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 (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

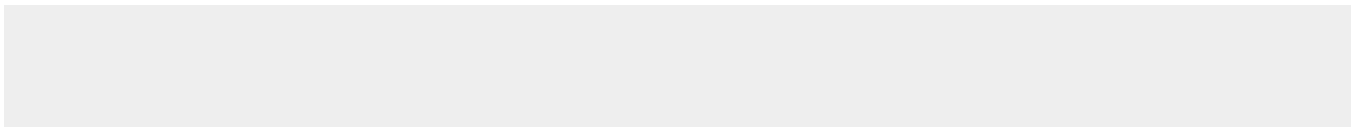
Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, cytoskeleton.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

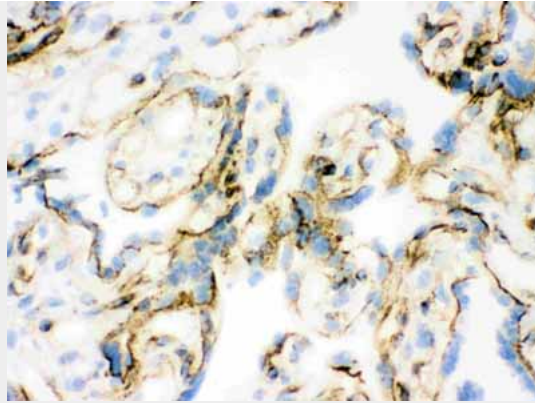
Anti-Vinculin Antibody (Monoclonal, hVIN-1) - Protocols

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

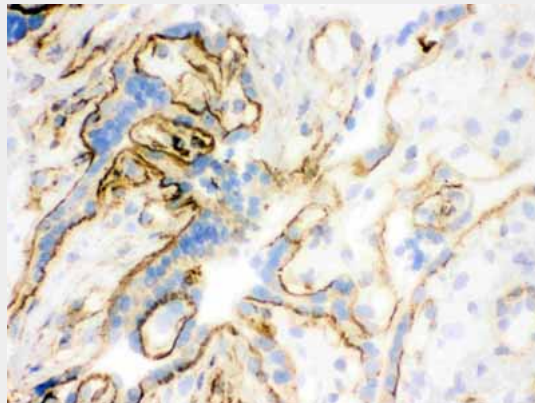
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.