

Anti-Vinculin Antibody (Monoclonal, hVIN-1)

Catalog # ABO10486

Product Information

Application	WB, IHC-F
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.

Additional Information

Gene ID	305679
Other Names	Vinculin, Vcl {ECO:0000250 UniProtKB:P18206}
Calculated MW	116615
Application Details	Immunohistochemistry(Frozen Section), 2-4 μ g/ml, Human, chicken, mouse, rat, - Western blot, 1-2 μ g/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.
Source	Eukaryota
Protein Name	Vinculin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	hVIN-1
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.

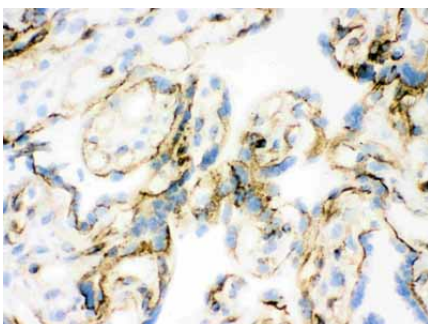
Protein Information

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}. 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}

Background

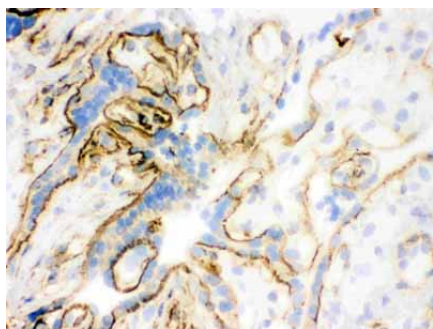
Vinculin is a cytoskeletal protein associated with the cytoplasmic face of both cell-cell and cell-extracellular matrix adherens-type junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Both human and chicken embryo sequences 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.

Images



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

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



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