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Vinculin Antibody

Rabbit mAb
Catalog # AP90215

Product Information

Application	WB, IF, ICC, IP
Primary Accession	P18206
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Vinculin;VCL;Metavinculin; MV;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	123799

Additional Information

Dilution	WB 1:10000~1:20000 ICC/IF 1:50~1:200 IP 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Vinculin
Description	Vinculin is a cytoskeletal protein that plays an important role in the regulation of focal adhesions and embryonic development. Three structural vinculin domains include an amino-terminal head, a short, flexible proline-rich region and a carboxy-terminal tail. In the inactive state, the head and tail domains of vinculin interact to form a closed confirmation. The open and active form of vinculin translocates to focal adhesions where it is thought to be involved in anchoring F-actin to the membrane and regulation of cell migration.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

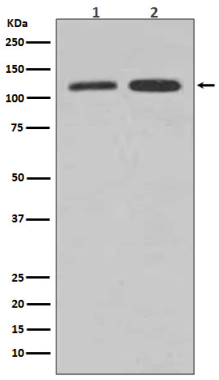
Protein Information

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.

Images



Western blot analysis of Vinculin expression in (1) HepG2 cell lysate; (2) HeLa cell lysate.

Image not found : 202311/AP90215-IF.jpg

Immunofluorescent analysis of A673 cells, using Vinculin Antibody .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.