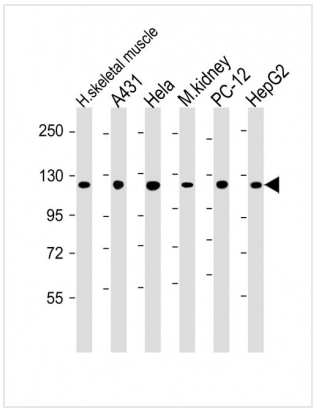
Vinculin (VCL) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Vinculin (Vcl), Polyclonal Antibody
Full Product Name	Vinculin
Product Gene Name	anti-Vcl antibody
Product Synonym Names	Vinculin; Metavinculin; Vcl
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Specificity	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 634-668 amino acids from mouse.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	116717 Da
3D Structure	ModBase 3D Structure for Q64727
Subtitle	Purified Rabbit Polyclonal Antibody (Pab)
Cellular Location	Cytoplasm, cytoskeleton. Cell junction, adherens junction. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction, focal adhesion. Note=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. Co-localizes with LIMD1 in the focal adhesions (By similarity).
Antigen Type	Synthesized Peptide
Product Categories/Family for anti-Vcl antibody	Crown Antibodies; Primary Antibodies; Cardiovascular; Signal Transduction
Applications Tested/Suitable for anti-Vcl antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Vcl antibody	WB:~~1:2000
Related Product Information for anti-Vcl antibody	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 (By similarity).
Product References and Citations for anti-Vcl antibody	Coll J.-L.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:9161-9165 (1995). Alatortsev V.E.,et al.FEBS Lett. 413:197-201 (1997). Carninci P.,et al.Science 309:1559-1563 (2005). Lubec G.,et al.Submitted (JAN-2009) to UniProtKB. Mandai K.,et al.J. Cell Biol. 144:1001-1017 (1999).
Other Notes	Small volumes of anti-Vcl antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Vcl purchase	MBS9217264 is an antibody targeting Vcl. Also known as Vinculin. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-Vcl antibody
All lanes : Anti-Vinculin at 1:2000 dilutionLane 1: human skeletal muscle lysateLane 2: A431 whole cell lysateLane 3: Hela whole cell lysateLane 4: mouse kidney lysateLane 5: PC-12 whole cell lysateLane 6: HepG2 whole cell lysateLysates/proteins at 20 ug per lane. SecondaryGoat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 117 kDaBlocking/Dilution buffer: 5% NFDM/TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Vcl. It may not necessarily be applicable to this product.

NCBI GI #	31543942
NCBI GeneID	22330
NCBI Accession #	NP_033528.3
UniProt Primary Accession #	Q64727
UniProt Secondary Accession #	Q8BP32; Q8BS46; Q922C5; Q922D9
UniProt Related Accession #	Q64727
GenBank Nucleotide #	NM_009502.4
NCBI Official Full Name	vinculin
NCBI Official Synonym Full Names	vinculin
NCBI Official Symbol	Vcl
NCBI Official Synonym Symbols	AA571387; AI462105; AW545629; 9430097D22
UniProt Protein Name	Vinculin
UniProt Synonym Protein Names	Metavinculin
Protein Family	Vinculin
UniProt Gene Name	Vcl
UniProt Entry Name	VINC_MOUSE
NCBI Protein Information	vinculin

UniProt Comments for Vcl	Vinculin: 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. Exhibits self-association properties. Interacts with NRAP and SORBS1. Interacts with TLN1. Interacts with SYNM. Interacts with CTNNB1 and this interaction is necessary for its localization to the cell-cell junctions and for its function in regulating cell surface expression of E-cadherin. Metavinculin is muscle-specific. Belongs to the vinculin/alpha-catenin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cell adhesion; Cytoskeletal Cellular Component: actin cytoskeleton; actin filament; adherens junction; cell junction; cell-cell adherens junction; costamere; cytoplasm; cytoskeleton; fascia adherens; focal adhesion; intercellular junction; lipid raft; membrane; plasma membrane; protein complex; sarcolemma; stress fiber; Z disc Molecular Function: actin binding; actin filament binding; alpha-catenin binding; protein binding; Rho GTPase binding; structural molecule activity; ubiquitin protein ligase binding Biological Process: apical junction assembly; axon extension; cell adhesion; lamellipodium biogenesis; morphogenesis of an epithelium; regulation of cell migration
Research Articles on Vcl	**1.** results suggest that vinculin promotes directionally persistent cell migration and tension-dependent ECM remodeling in complex 3D environments by increasing cell-ECM adhesion and traction force generation.
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