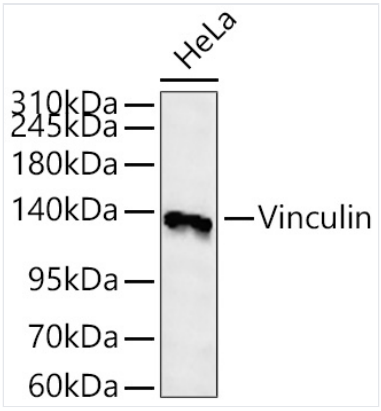
Vinculin (VCL) Antibody – Rabbit Polyclonal

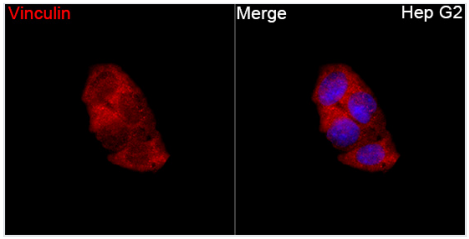
PRODUCT OVERVIEW

Product Name	Vinculin (VCL), Polyclonal Antibody
Full Product Name	Vinculin Rabbit pAb
Product Gene Name	anti-VCL antibody
Product Synonym Names	MV; MVCL; CMD1W; CMH15; HEL114
Immunogen Sequence	MPVFHTRTIE SILEPVAQQI SHLVIMHEEG EVDGKAIPDL TAPVAAVQAA VSNLVRVGKE TVQTTEDQIL KRDMPPAFIK VENACTKLVQ AAQMLQSDPY SVPARDYLID GSRGILSGTS DLLLTFDEAE VRKIIRVCKG ILEYLTVAEV VETMEDLVTY TKNLGPGMTK MAKMIDERQQ ELTHQEHRVM LVNSMNTVKE LLPVLISAMK IFVTTKNSKN QGIEEALKNR NFTVEKMSAE INEIIRVLQL TSWDEDAW
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 124kDa Observed MW: 130kDa
OMIM	193065
3D Structure	ModBase 3D Structure for P18206
Cross Reactivity	Human, Mouse, Rat
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-258 of human Vinculin (NP_054706.1).
Product Categories/Family for anti-VCL antibody	Signal Transduction; Cell Biology Developmental Biology; Cytoskeleton; Microfilaments; Actins; Cardiovascular; Heart; Contractility; Cardiac arrhythmias; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-VCL antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-VCL antibody	WB: 1:500-1:1000 IF/ICC: 1:50-1:200 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Related Product Information for anti-VCL antibody	Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.

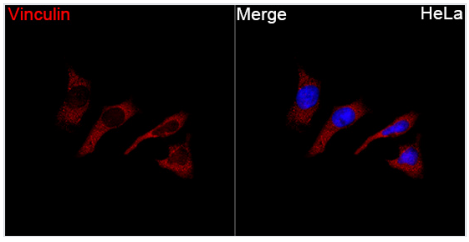
Other Notes	Small volumes of anti-VCL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for VCL purchase	MBS9148731 is an antibody targeting VCL. Also known as Vinculin Rabbit pAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-VCL antibody
Western blot analysis of lysates from HeLa cells using Vinculin Rabbit pAb (MBS9148731) at 1:1000 dilution incubated overnight at 4?.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 45s.



Immunofluorescence (IF) of anti-VCL antibody
Immunofluorescence analysis of Hep G2 cells using Vinculin Rabbit pAb (MBS9148731) at a dilution of (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence (IF) of anti-VCL antibody
Immunofluorescence analysis of HeLa cells using Vinculin Rabbit pAb (MBS9148731) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

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

NCBI GI #	4507877
NCBI GeneID	7414
NCBI Accession #	NP_003364.1
UniProt Primary Accession #	P18206
UniProt Secondary Accession #	Q16450; Q5SWX2; Q7Z3B8; Q8IXU7
UniProt Related Accession #	P18206
GenBank Nucleotide #	NM_003373.3
UniProt Protein Name	Vinculin
UniProt Synonym Protein Names	Metavinculin
Protein Family	Vinculin
UniProt Gene Name	VCL
UniProt Synonym Gene Names	MV

UniProt Entry Name	VINC_HUMAN
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: Cell adhesion; Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 10q22.2 Cellular Component: protein complex; costamere; focal adhesion; extracellular region; intercellular junction; fascia adherens; cytosol; cell-matrix junction; actin cytoskeleton; cell-cell adherens junction; adherens junction; cytoskeleton; plasma membrane; vesicle Molecular Function: protein binding; cadherin binding; beta-catenin binding; structural molecule activity; actin binding; alpha-catenin binding Biological Process: lamellipodium biogenesis; platelet activation; platelet degranulation; apical junction assembly; muscle contraction; axon extension; cell-matrix adhesion; morphogenesis of an epithelium; blood coagulation; cell adhesion; cell motility; negative regulation of cell migration Disease: Cardiomyopathy, Dilated, 1w
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-vcl-human-antibody/vinculin/9148731