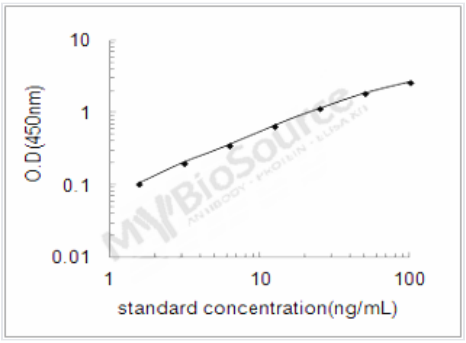
Vinculin (VCL) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Vinculin (VCL), ELISA Kit
Full Product Name	Human Vinculin ELISA Kit
Product Gene Name	VCL elisa kit
Product Synonym Names	Vinculin; Metavinculin; VCL; MV
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	1.56-100 ng/mL
Sensitivity	0.78 ng/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	24,904 Da
OMIM	193065
3D Structure	ModBase 3D Structure for P18206
Intra-Assay CV	<=4.6%
Inter-Assay CV	<=7.6%
Recovery	97%
Related Product Information for VCL elisa kit	MBS2880933 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Vinculin (VCL) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing VCL. The ELISA analytical biochemical technique of the MBS2880933 kit is based on VCL antibody-VCL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect VCL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, VCL. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of VCL elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of VCL elisa kit

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
NCBI Official Full Name	vinculin isoform VCL
NCBI Official Synonym Full Names	vinculin
NCBI Official Symbol	VCL
NCBI Official Synonym Symbols	MV; MVCL; CMD1W; CMH15; HEL114
UniProt Protein Name	Vinculin
UniProt Synonym Protein Names	Metavinculin; MV
Protein Family	Vinculin
UniProt Gene Name	VCL
UniProt Synonym Gene Names	MV
UniProt Entry Name	VINC_HUMAN
NCBI Protein Information	vinculin
NCBI Summary for VCL	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. [provided by RefSeq, Jul 2008]

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; Cytoskeletal; Cell adhesion Chromosomal Location of Human Ortholog: 10q22.2 Cellular Component: actin cytoskeleton; adherens junction; brush border; cell; cell-cell adherens junction; cell-matrix junction; costamere; cytoskeleton; cytosol; extracellular region; fascia adherens; focal adhesion; intercellular junction; lipid raft; plasma membrane; protein complex; zonula adherens Molecular Function: actin binding; alpha-catenin binding; beta-catenin binding; cadherin binding; protein binding; structural molecule activity; ubiquitin protein ligase binding Biological Process: apical junction assembly; axon extension; blood coagulation; cell adhesion; cell motility; cell-matrix adhesion; lamellipodium biogenesis; morphogenesis of an epithelium; muscle contraction; negative regulation of cell migration; platelet activation; platelet degranulation Disease: Cardiomyopathy, Dilated, 1w
Research Articles on VCL	**1.** The activation of vinculin by stretched talin induces a positive feedback that reinforces the actin-talin-vinculin association.
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