

Human Vinculin (VCL) ELISA Kit | VCL elisa kit

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CATALOG #
AAA330291

REACTIVITY
Human

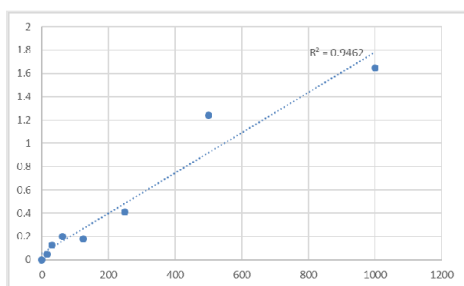
PRODUCT SYNONYMS

Vinculin (VCL); Human Vinculin (VCL) ELISA Kit; VCL; RP11-178G16.3; CMD1W; MVCL; metavinculin; VCL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vinculin (VCL) ELISA Kit has high sensitivity and excellent specificity for detection of Human VCL. No significant cross-reactivity or interference between Human VCL and analogues was observed.
Sequence Length	1066
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Vinculin (VCL) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VCL elisa kit	Description: This Human Vinculin (VCL) ELISA Kit employs a two-site sandwich ELISA to quantitate VCL in samples. An antibody specific for VCL has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any VCL present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VCL is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VCL bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: In mammalian cells, vinculin is a membrane-cytoskeletal protein in focal adhesion plaques that is involved in linkage of integrin adhesion molecules to the actin cytoskeleton. Its sequence is 20-30% homologous to alpha-catenin, which serves a similar function. Vinculin is a 117 kDa cytoskeletal protein with 1066 amino acids. The protein contains an acidic N-terminal domain and a basic C-terminal domain separated by a proline-rich middle segment. Vinculin consists of a globular head domain that contains binding sites for talin and alpha-actinin as well as a tyrosine phosphorylation site, while the tail region contains binding sites for F-actin, paxillin and lipids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507877
NCBI GeneID	7414
NCBI Accession #	NP_003364.1
NCBI GenBank Nucleotide #	NP_003364.1
UniProt Accession #	P18206
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
NCBI Protein Information	vinculin
UniProt Protein Name	Vinculin
UniProt Gene Name	VCL
UniProt Synonym Gene Names	MV
UniProt Entry Name	VINC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/vinculin-vcl/330291>