

## Datasheet for ABIN7319171 **Vinculin Protein (VCL)**



[Go to Product page](#)

### Overview

Quantity:	50 µg
Target:	Vinculin (VCL)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human VCL/Vinculin Protein
Sequence:	Pro2-Gln1066
Characteristics:	Recombinant Human Vinculin is produced by our E.coli expression system and the target gene encoding Pro2-Gln1066 is expressed.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	Vinculin (VCL)
Alternative Name:	VCL/Vinculin ( <a href="#">VCL Products</a> )
Background:	Background: Vinculin is a focal adhesion and cytoskeletal protein that distributed mainly at cell-cell junctions and cell-extracellular matrix (ECM) adhesion that belongs to the Vinculin/α-Catenin family. Vinculin is an Actin-binding protein and component of the Actin-Linking Functional module that senses and feels the mechanical properties of the extracellular

## Target Details

environment. Vinculin is also a key factor that couples, transmits, transduces, and regulates mechanical force between the cytoskeleton and adhesion receptors. Vinculin generally forms two structural states, an open (active) and closed (inactive) state, which are controlled by conformational interaction(s) between the head and tail domains. Vinculin is involved in the mechano-chemical signal transmission of cells by binding to a variety of focal adhesion or cytoskeletal proteins, and plays important roles in cell adhesion, extension, motion, proliferation and survival.

Synonym: Vinculin, Metavinculin, VCL,CMD1W,CMH15,HEL114,MV,MVCL

Molecular Weight:	117.0 kDa
UniProt:	<a href="#">P18206</a>
Pathways:	<a href="#">Cell-Cell Junction Organization</a> , <a href="#">Maintenance of Protein Location</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.