

Recombinant Full Length Rat VCL Protein, His tagged

Cat. No. VCL-6507R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Rat VCL Protein with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	1-1066 aa
Description	Enables small GTPase binding activity. Predicted to be involved in several processes, including cell-cell junction assembly; platelet aggregation; and protein localization to cell surface. Predicted to act upstream of or within axon extension; lamellipodium assembly; and regulation of cell migration. Located in several cellular components, including Z disc; actin cytoskeleton; and focal adhesion. Human ortholog(s) of this gene implicated in dilated cardiomyopathy; dilated cardiomyopathy 1W; hypertrophic cardiomyopathy; and hypertrophic cardiomyopathy 15. Orthologous to human VCL (vinculin).
Form	Sterile PBS, pH7.4
Molecular Mass	118 kDa
AASequence	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVG KETVQTTEDQILKRDMPPAFIKVENACTKLQAAQMLQSDPYSPARDYLIDGSRGIL SGTSDLLLTfDEAEVRKIIRVCKGILEYLTVAEvvETMEDLVTYTKNLGPGMTKMAKM IDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNF

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TVGKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLDPNA
 SPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGA
 SPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNG
 GPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEIAALTSKLGDLRRQGKGDSP
 ARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGV
 GQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLAAQLADLAARGESESPQA
 RALASQLQDSLKDLKTQMMEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVF
 DERAANFENHSGRLGATAEKAAVGAANKSTVEGIQASVKTARELTPQVISAARILLR
 NPGNQAAEYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLDASEEAIKKDLKCKVA
 MANIQPQMLVAGATSIARRANRILLVAKREVENEDPKFREAVKAASDELSTISPMV
 MDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLT
 DELAPPKPLPEGEVPPPRPPPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR
 KWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIKASDEVTRLAKE
 VAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRNTNISDEESEQATEMLVHN
 AQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQDYKDDDDKHHHHHHH
 H

Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.54 mg/mL by BCA

GENE INFORMATION

Gene Name Vcl vinculin [*Rattus norvegicus* (Norway rat)]

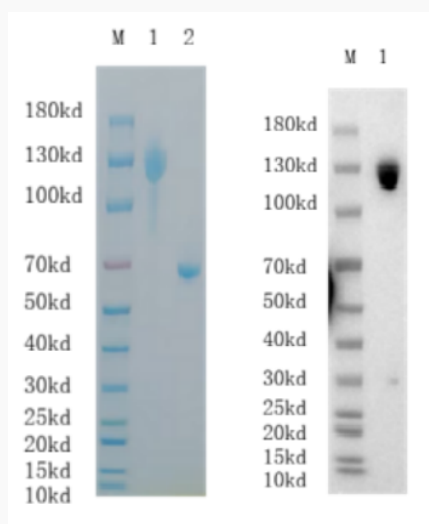
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Official Symbol	VCL
Synonyms	VCL; vinculin; metavinculin;
Gene ID	305679
mRNA Refseq	NM_001107248
Protein Refseq	NP_001100718
UniProt ID	P85972

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified VCL. 1. VCL: 1 µg 2. BSA: 1 µg

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