

Recombinant Full Length Rat VCL Protein, His-tagged, Biotin Labeled

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

SPECIFICATION

Product Overview	Biotinylated recombinant Full Length Rat VCL Protein with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	1-1066 aa
Conjugation/Label	Biotin
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).
Molecular Mass	118 kDa
AASequence	MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVG KETVQTTEDQILKRDMPPAFIKVENACTKLQVQAAQMLQSDPYSPARDYLIDGSRGIL

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 45-1 Ramsey Road, Shirley, NY 11967, USA

SGTSDLLLTDFDEAEVRKIIRVCKGILEYLTVAEUVETMEDLVITYTKNLGPGMTKMAKM
 IDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNF
 TVGKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLDPNA
 SPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGA
 SPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNG
 GPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEIAALTSKLGDLRRQGKGDSPE
 ARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGV
 GQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLAAQLADLAARGESESPQA
 RALASQLQDSLKDLKTQMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVF
 DERAANFENHSGRLGATAEKAAAVGAANKSTVEGIQASVKTARELTPQVISAARILLR
 NPGNQAAEYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLKCKVA
 MANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMV
 MDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLT
 DELAPPKPPLPEGEVPPPRPPPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR
 KWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKE
 VAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHN
 AQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQDYKDDDDKHHHHHHH
 H

Labeling Efficiency 8.43 by HABA

Endotoxin < 1 EU/μg by LAL

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.

Storage Buffer Sterile PBS, pH7.4

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Concentration 0.82 mg/mL by BCA

GENE INFORMATION

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

Official Symbol Vcl

Synonyms Vcl; vinculin; vinculin; metavinculin

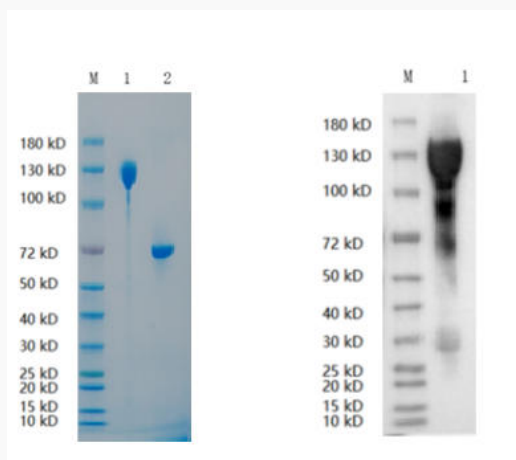
Gene ID 305679

mRNA Refseq NM_001107248

Protein Refseq NP_001100718

UniProt ID R9PXU6

SDS-PAGE (CBB stained) and WB



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

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μg 2. BSA: 1 μg

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