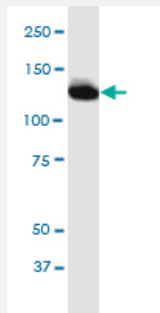


VCL monoclonal antibody (M02), clone 3F8-1D4

Catalog # H00007414-M02

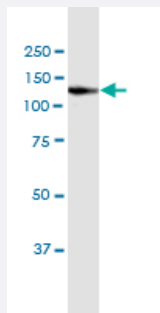
Size 100 ug

Applications



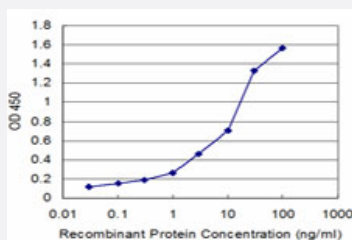
Western Blot (Cell lysate)

VCL monoclonal antibody (M02), clone 3F8-1D4. Western Blot analysis of VCL expression in A-549.



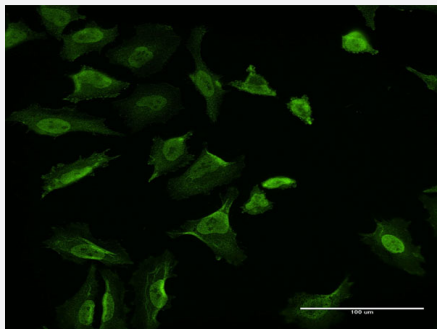
Western Blot (Cell lysate)

VCL monoclonal antibody (M02), clone 3F8-1D4. Western Blot analysis of VCL expression in HeLa.



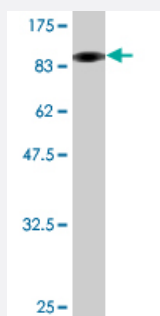
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VCL is approximately 0.1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to VCL on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (143 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant VCL.

Immunogen

VCL (AAH39174.1, 1 a.a. ~ 1066 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTE
QILKRDMPPAFIKVENACTKLVAQAQMLQSDPYSPARDYLIDGSRGILSGTSDLLTFDEAEVRKII
RVCKGILEYLTVAEIVETMEDLVITYTKNLGPGMTKMAKMIDERQQELTHQEHVMLVNSMNTVKE
LLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTLEKMSAEINEIRVLQLTSWDEDAWASKDTEAMK
RALASIDSKLNQAKGWLDRPSASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMT
DQVADLRARGQGSSPVAMQKAQQVSQGLDVLTAQVANAARKLEAMTNSKQSIKKIDAAQNW
ADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEISALTSKLADLRRQKGDSPEAR
ALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRQVGGAAIRGLVAE
GHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGESESPQARALASQLQDSLKDLKARM
QEAMTQEVSDVFSDDTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVG
TANKSTVEGIQASVKTARELTPQVVSARILLRNPNGNQAAYEHFETMKNQWIDNVEKMTGLVDEAI
DTKSLLDASEEAIKKDLKCKVAMANIQQMLVAGATSIARRANRILLVAKREVENSEDPKFREAV
KAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPPQEPDFPPPPP
DLEQLRLTDELAPPKPPLPEGEVPPPPRPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR
KWSSKGNDIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIKASDEVTRLAKEVAKQCTDK
RIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMSQSVKETVREAE
ASIKIRTDAGFTLRWVRKTPWYQ

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (143 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

VCL monoclonal antibody (M02), clone 3F8-1D4. Western Blot analysis of VCL expression in A-549.

[Protocol Download](#)

- Western Blot (Cell lysate)

VCL monoclonal antibody (M02), clone 3F8-1D4. Western Blot analysis of VCL expression in HeLa.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged VCL is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to VCL on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — VCL

Entrez GeneID [7414](#)

GeneBank Accession# [BC039174](#)

Protein Accession#	AAH39174.1
Gene Name	VCL
Gene Alias	CMD1W, MVCL
Gene Description	vinculin
Omim ID	193065 611407
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000019861 OTTHUMP00000043885 metavinculin

Pathway

- [Adherens junction](#)
- [Focal adhesion](#)
- [Leukocyte transendothelial migration](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Alzheimer Disease](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)