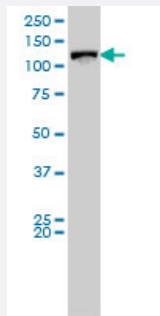


VCL monoclonal antibody (M01), clone 2C6-1B5

Catalog # H00007414-M01

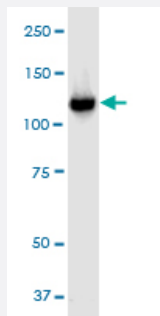
Size 50 ug

Applications



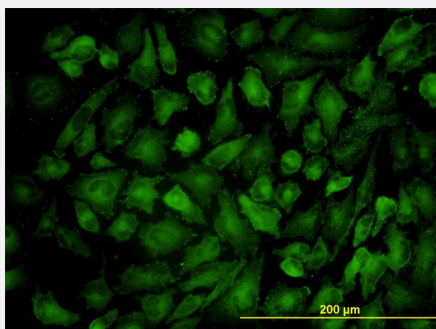
Western Blot (Cell lysate)

VCL monoclonal antibody (M01), clone 2C6-1B5 Western Blot analysis of VCL expression in HeLa (Cat # L013V1).



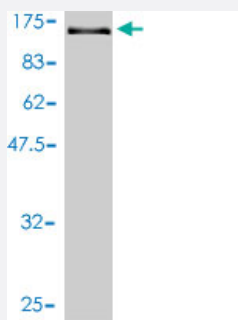
Western Blot (Cell lysate)

VCL monoclonal antibody (M01), clone 2C6-1B5. Western Blot analysis of VCL expression in U-2 OS.



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 RVCKGILEYLTVAEVVETMEDLVITYTKNLGPGMTKMAKMIDERQQELTHQEHVMLVNSMNTVKE LLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTLEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMK RALASIDSKLNQAKGWLDRDPSASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMT DQVADLRARGQGSSPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIKKIDAAQNWL ADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEISALTSKLADLRQKGKGDSPPEAR ALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRQVQAAIRGLVAE GHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGESESPQARALASQLQDSLKDLKARM QEAMTQEVSDVFSDTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVG TANKSTVEGIQASVKTARELTPQVVSARILLRNPNGNQAAYEHFETMKNQWIDNVEKMTGLVDEAI DTKSLLDASEEAIKKDLKCKVAMANIQQPMLVAGATSARRANRILLVAKREVENSEDPKFREAV KAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPP DLEQLRLTDELAPPKPPLPEGEVPPPRPPPEEKDEEFPEQKAGEVINQPMMAARQLHDEAR KWSSKGNDIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIKASDEVTRLAKEVAKQCTDK RIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAE ASIKIRTDAGFTLRWVRKTPWYQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG1 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 (M01), clone 2C6-1B5 Western Blot analysis of VCL expression in Hela (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

VCL monoclonal antibody (M01), clone 2C6-1B5. Western Blot analysis of VCL expression in U-2 OS.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — VCL

Entrez GeneID	7414
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GeneBank Accession#	BC039174
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Protein Accession#	AAH39174.1
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Gene Name	VCL
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Gene Alias	CMD1W, MVCL
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Gene Description	vinculin
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Omim ID	193065 611407
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Gene Ontology	Hyperlink
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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

Publication Reference

- [Neonatal Vitamin C and Cysteine Deficiencies Program Adult Hepatic Glutathione and Specific Activities of Glucokinase, Phosphofructokinase, and Acetyl-CoA Carboxylase in Guinea Pigs' Livers.](#)

Vitor Teixeira, Ibrahim Mohamed, Jean-Claude Lavoie.

Antioxidants 2021 Jun; 10(6):953.

Application: WB-Ti, Guinea pig, Guinea pig liver

- [Dual peptide-dendrimer conjugate inhibits acetylation of transforming growth factor \$\beta\$ -induced protein and improves survival in sepsis.](#)

Wonhwa Lee, Eun Ji Park, Oh Kwang Kwon, Hyelim Kim, Youngbum Yoo, Shin-Woo Kim, Young-Kyo Seo, In-San Kim, Dong Hee Na, Jong-Sup Bae.

Biomaterials 2020 Jul; 246:120000.

Application: WB-Ce, Human, HUVECs

- [Ascorbylperoxide contaminating parenteral nutrition perturbs the lipid metabolism in newborn guinea pig.](#)

Maghdessian R, Côté F, Rouleau T, Ben Djoudi Ouadda A, Levy E, Lavoie JC.

The Journal of Pharmacology and Experimental Therapeutics 2010 Jul; 334(1):278.

Application: WB-Ti, Mouse, Mouse livers

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](#)