

Product Name: KD-Validated Vinculin Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01824**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:4,000-1:20,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 123.8kDa

Antigen Information

Gene Name	VCL
Alternative Names	VCL; Vinculin; Metavinculin; VINC; MV; Epididymis Secretory Sperm Binding Protein; Epididymis Luminal Protein 114; Meta-Vinculin; HEL114; CMD1W; CMH15; MVCL
Gene ID	7414.0
SwissProt ID	P18206
Immunogen	A synthesized peptide derived from human Vinculin

Background

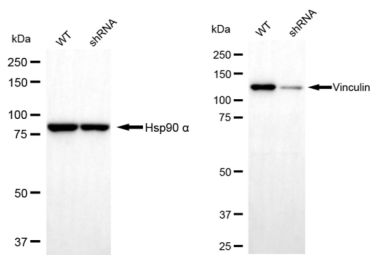
Vinculin is a cytoskeletal protein associated with cell-cell and cell-matrix junctions, where it is thought to function as one of several interacting proteins involved in anchoring F-actin to the membrane. Defects in VCL are the cause of cardiomyopathy dilated type 1W. Dilated cardiomyopathy is a disorder 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, Jul 2008]

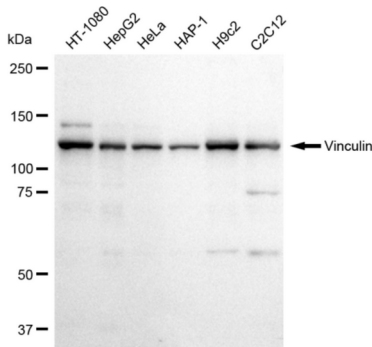
Research Area

Signal Transduction, Cardiovascular, Isotype/Loading Controls

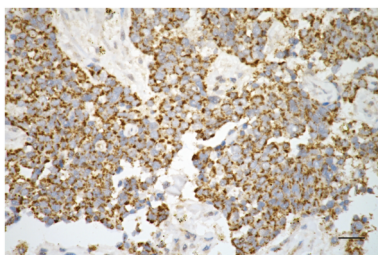
Image Data



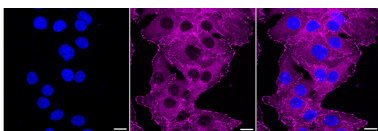
Western blotting analysis using Vinculin antibody (KVA01824). Vinculin expression in wild type (WT) and Vinculin shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Vinculin antibody (KVA01824, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



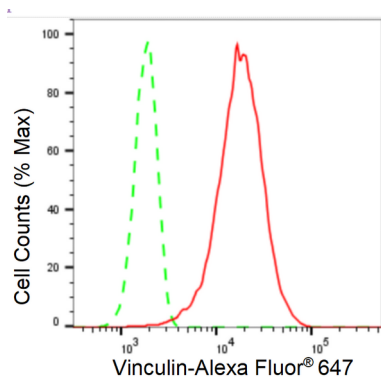
Western blotting analysis using Vinculin antibody (KVA01824). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Vinculin antibody (KVA01824, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using vinculin antibody (KVA01824, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HT-1080 cells with Vinculin antibody (KVA01824, 1:1,000). Nuclei were stained blue with DAPI; Vinculin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of Vinculin expression in HT-1080 cells using Vinculin antibody (KVA01824, 1:2,000). Green, isotype control; red, Vinculin.