

# Product datasheet

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# ARG66958 anti-Vinculin antibody

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes Vinculin

Tested Reactivity Hu, Ms
Predict Reactivity Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name Vinculin
Species Human

Immunogen Synthetic peptide around the middle region of Human Vinculin.

Conjugation Un-conjugated

Alternate Names HEL114; Metavinculin; CMH15; Vinculin; CMD1W; MV; MVCL

# **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:200-1:500
	IHC-P	1:200 - 1:300
	WB	1:2000 - 1:4000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	125 kDa	

# **Properties**

Form Liquid

Purification Affinity purified.

Buffer 100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.

Preservative 0.025% ProClin 300

Stabilizer 20% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

#### Bioinformation

Gene Symbol VCL

Gene Full Name 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]

Function Actin filament (F-actin)-binding protein involved in cell-matrix adhesion and cell-cell adhesion.

complex. May also play important roles in cell morphology and locomotion. [UniProt]

Research Area Cell Biology and Cellular Response antibody; Controls and Markers antibody; Signaling Transduction

antibody; Loading Control antibody; Loading Control antibody for cytoplasmic fraction; High MW

Regulates cell-surface E-cadherin expression and potentiates mechanosensing by the E-cadherin

loading control antibody

Calculated Mw 124 kDa

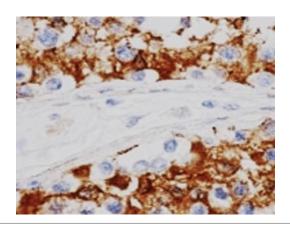
PTM Phosphorylated; on serines, threonines and tyrosines. Phosphorylation on Tyr-1133 in activated

platelets affects head-tail interactions and cell spreading but has no effect on actin binding nor on

localization to focal adhesion plaques (By similarity).

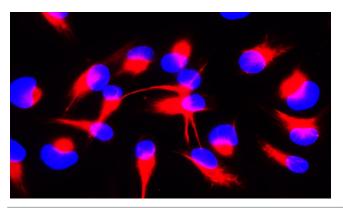
Acetylated; mainly by myristic acid but also by a small amount of palmitic acid.

# **Images**



#### ARG66958 anti-Vinculin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded mouse testis tissue stained with ARG66958 anti-Vinculin antibody at 1:300 dilution.



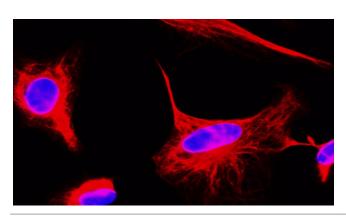
#### ARG66958 anti-Vinculin antibody ICC/IF image image

Immunofluorescence: Formalin-fixed DBTRG cells were permeabilized with 0.1% NP-40 in TBS for 10 minutes and blocked with 5% BSA-PBS for 30 minutes at room temperature. Cells were stained ARG66958 anti-Vinculin antibody at 1:200 dilution.



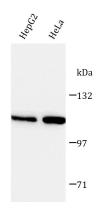
# ARG66958 anti-Vinculin antibody WB image image

Western blot: Mouse liver stained with ARG 66958 anti-Vinculin antibody at 1:3000 dilution, overnight at 4°C.



#### ARG66958 anti-Vinculin antibody ICC/IF image image

Immunofluorescence: Formalin-fixed HUVEC cells were permeabilized with 0.1% NP-40 in TBS for 10 minutes and blocked with 5% BSA-PBS for 30 minutes at room temperature. Cells were stained ARG66958 anti-Vinculin antibody at 1:200 dilution.



#### ARG66958 anti-Vinculin antibody WB image image

Western blot: HepG2 and HeLa cells stained with ARG 66958 anti-Vinculin antibody at 1:3000 dilution, overnight at 4°C.