

**KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1083****Specification****KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P18206</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 124 kDa, observed, 124 kDa
Gene Name	KDa
Aliases	VCL VCL; Vinculin; Metavinculin; VINC; MV; Epididymis Secretory Sperm Binding Protein; Epididymis Luminal Protein 114; Meta-Vinculin; HEL114; CMD1W; CMH15; MVCL
Immunogen	A synthesized peptide derived from human Vinculin

**KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody - Additional Information**

Gene ID	7414
<b>Other Names</b>	
Vinculin, Metavinculin, MV, VCL	

**KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody - Protein Information****Name** VCL**Function**

Actin filament (F-actin)-binding protein involved in cell- matrix adhesion and cell-cell adhesion. Regulates cell-surface E- cadherin expression and potentiates mechanosensing by the E-cadherin complex. May also play important roles in cell morphology and locomotion.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P85972}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q64727}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q64727}; Cytoplasmic side {ECO:0000250|UniProtKB:Q64727}. Cell projection, podosome {ECO:0000250|UniProtKB:Q64727}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q64727}. Note=Recruitment to cell-cell junctions occurs in a myosin II-dependent manner. Interaction with CTNNB1 is necessary for its localization to the cell-cell junctions {ECO:0000250|UniProtKB:P12003}

## Tissue Location

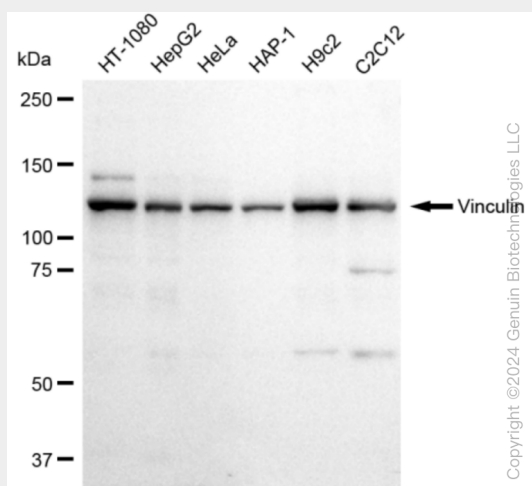
Metavinculin is muscle-specific.

## KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody - Protocols

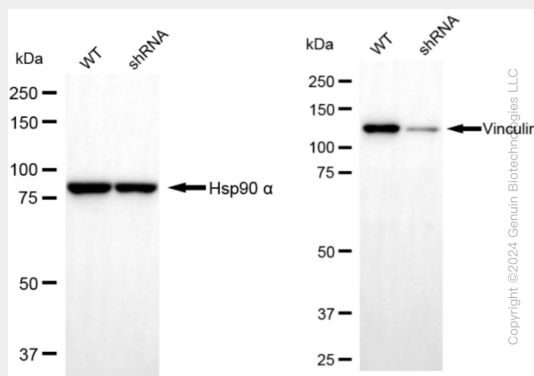
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-Vinculin Rabbit Monoclonal Antibody - Images

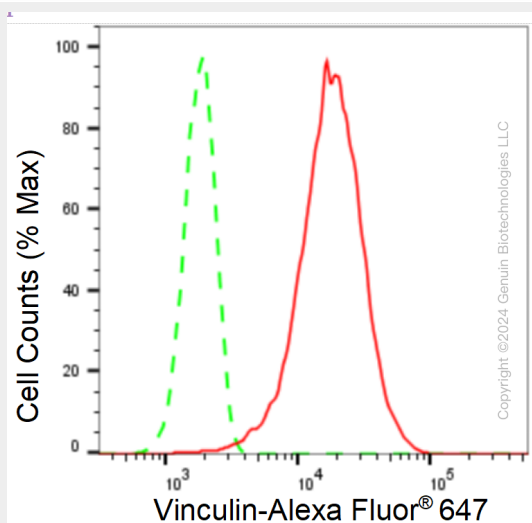


Western blotting analysis using anti-Vinculin antibody (Cat#AGI1083). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Vinculin antibody (Cat#AGI1083, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

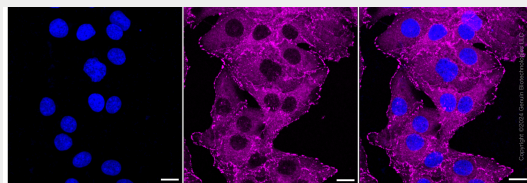


Western blotting analysis using anti-Vinculin antibody (Cat#AGI1083). Vinculin expression in wild type (WT) and Vinculin shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Vinculin antibody (Cat#AGI1083,

1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Vinculin expression in HT-1080 cells using Vinculin antibody (Cat#AGI1083, 1:2,000). Green, isotype control; red, Vinculin.



Immunocytochemical staining of HT-1080 cells with Vinculin antibody (Cat#AGI1083, 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  $\mu$ m.