10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Vinculin Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22113a

Specification

Vinculin Antibody - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	Q64727
Other Accession	P85972
Reactivity	**Human, Mouse, Rat**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**

Vinculin Antibody - Additional Information

Gene ID 22330

Other Names
Vinculin, Metavinculin, Vcl

Target/Specificity
This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 903-937 amino acids from mouse.

Dilution
WB~~1:2000
FC~~1:25
IHC-P~~1:25
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Vinculin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Vinculin 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 (By similarity).

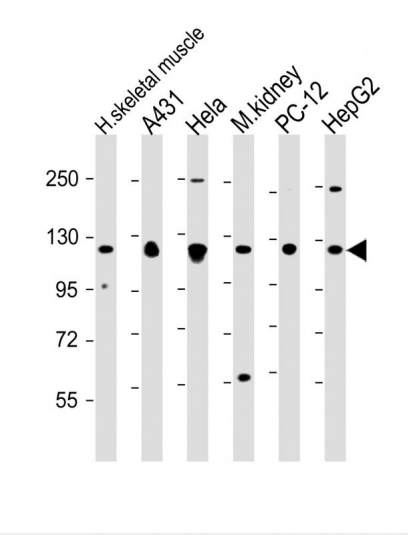
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P12003}; Peripheral membrane protein {ECO:0000250|UniProtKB:P12003}; Cytoplasmic side {ECO:0000250|UniProtKB:P12003}. Cell junction, adherens junction {ECO:0000250|UniProtKB:P12003}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:P12003}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P85972}. Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side. Cell projection, podosome. 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}

Vinculin 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 Cytomety
- Cell Culture

Vinculin Antibody - Images



All lanes : Anti-Vinculin at 1:2000 dilution Lane 1: human skeletal muscle lysate Lane 2: A431 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: mouse kidney lysate Lane 5: PC-12 whole cell lysate Lane 6: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 117 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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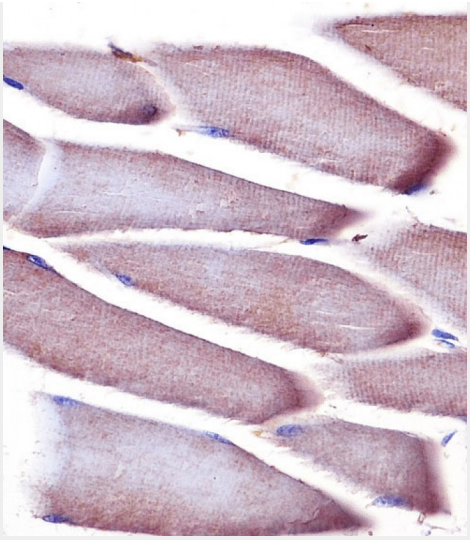
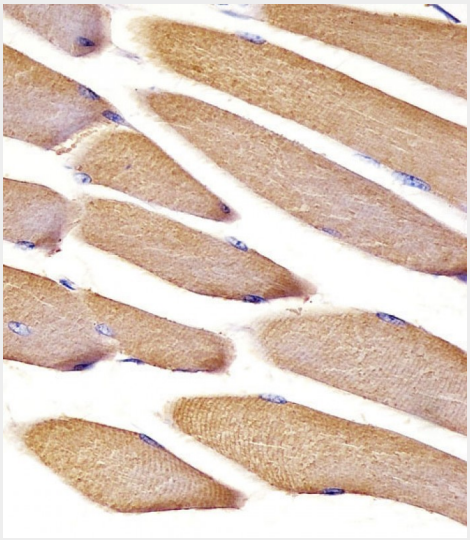


AP22113a staining Vinculin in mouse skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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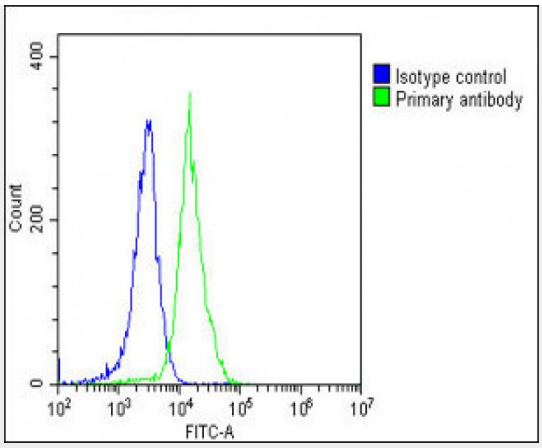
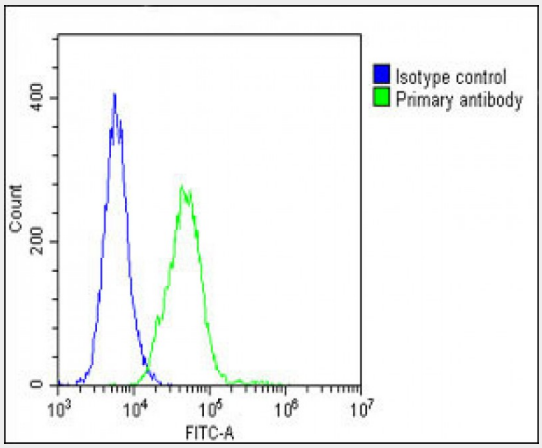


Overlay histogram showing NIH/3T3 cells stained with AP22113a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22113a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Overlay histogram showing C2C12 cells stained with AP22113a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22113a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Vinculin Antibody - Background

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 (By similarity).

Vinculin Antibody - References

Coll J.-L.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:9161-9165(1995).
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