

Datasheet for 600-401-FW5**Vinculin Antibody****Overview**

Description:	Anti-Vinculin (RABBIT) Antibody - 600-401-FW5
Item No.:	600-401-FW5
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Vinculin is a cytoskeletal protein that plays an important role in the regulation of focal adhesions and embryonic development (1). Three structural vinculin domains include an amino-terminal head, a short flexible proline-rich region and a carboxy-terminal tail (2). Expression of vinculin were shown to be affected by the level of actin expression (2,3). Vinculin deficiencies are associated with a decrease in cell adhesion and an increase in cell motility, suggesting a possible role in metastatic growth (4). Defects in VCL are the cause of cardiomyopathy dilated type 1W (CMD1W) (5).
Synonyms:	Vinculin Antibody , MV, MVCL, CMD1W, CMH15, HEL114, Vinculin, Metavinculin, MV
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	VCL
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Vinculin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the C-terminus of human Vinculin.

Purity/Specificity: Anti-Vinculin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Vinculin antibody is human, mouse and rat specific. At least three isoforms of Vinculin are known to exist.

Relevant Links:

- [UniProtKB - P18206](#)
- [GeneID - 7414](#)
- [NCBI - NP_003364.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-Vinculin Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 124 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IF: 20 µg/mL

IHC: 5 µg/mL

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

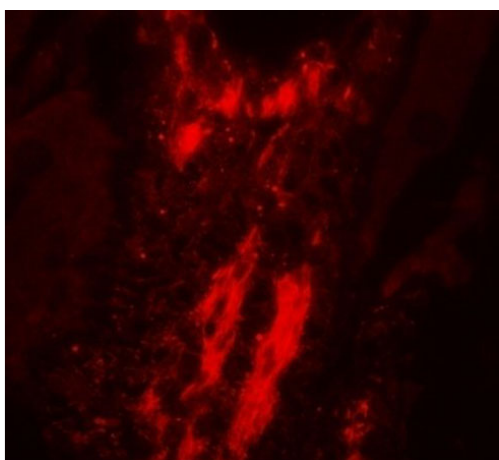
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

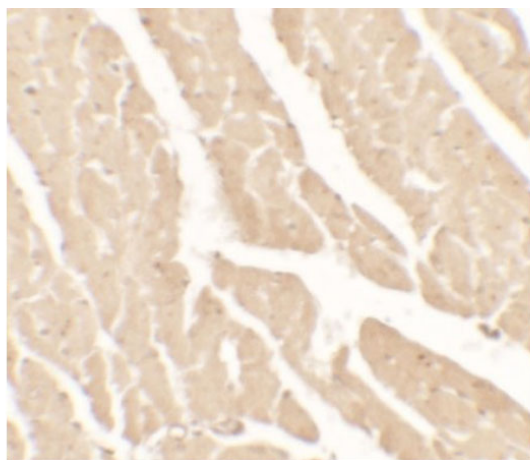
Immunofluorescence of Vinculin.

Tissue: Rat Small Intestine Tissue.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: Vinculin at 20 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).



Immunohistochemistry

Immunohistochemistry of Vinculin.

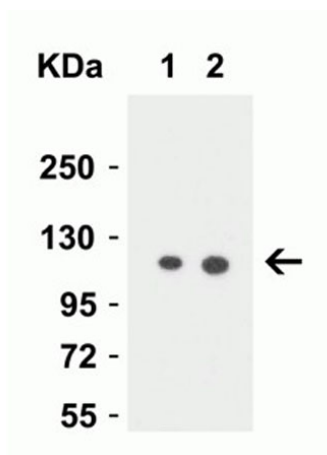
Tissue: Rat Small Intestine Tissue.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary antibody: anti-Vinculin antibody at 5 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



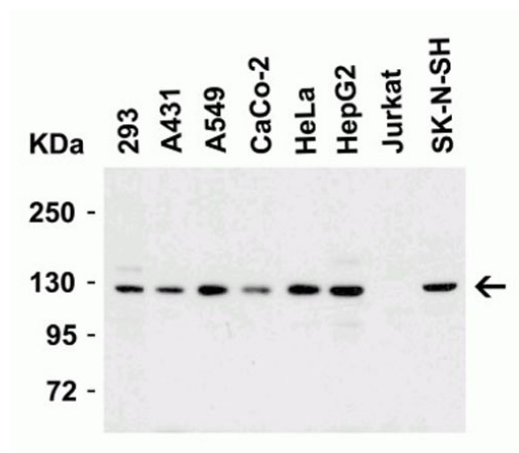
Western Blot

Western Blot of Vinculin.

Load: 15 µg of Human PC-3 Cell lysates per lane.

Antibodies: Vinculin (Lane 1: 0.5 µg/mL and Lane 2: 1 µg/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



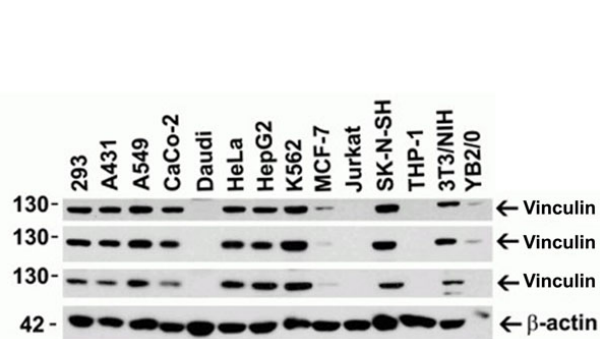
Western Blot

Western Blot of Vinculin.

Load: 15 µg of human cell lysates per lane.

Antibodies: Vinculin at 2 µg/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



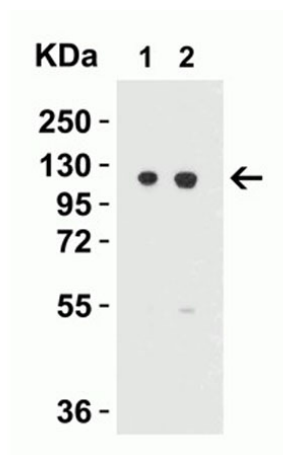
Western Blot

Western Blot of Vinculin.

Loading: 15 µg of human, mouse, or rat lysates per lane.

Antibodies: TOP: human Vinculin [c-term] (p/n 600-401-FW5) at 2 µg/mL, MIDDLE: human Vinculin [n-term] at 1 µg/mL, BOTTOM: human Vinculin [internal] at 1 µg/mL, and beta-actin at 1.5 µg/mL for 1h at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

**Western Blot**

Western Blot of Vinculin.

Load: 15 µg of mouse 3T3 cell lysates per lane.

Antibodies: Vinculin at (Lane 1: 0.5 µg/mL and Lane 2: 1 µg/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.