

# Vinculin Monoclonal antibody

Catalog Number: 66305-1-Ig **128 Publications**

## Basic Information

### Catalog Number:

66305-1-Ig

### Size:

1000 µg/ml

### Source:

Mouse

### Isotype:

IgG1

### Immunogen Catalog Number:

AG24946

### GenBank Accession Number:

BC039174

### GeneID (NCBI):

7414

### UNIPROT ID:

P18206

### Full Name:

vinculin

### Calculated MW:

1133 aa, 124 kDa

### Observed MW:

117 kDa

### Purification Method:

Protein A purification

### CloneNo.:

2B5A7

### Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

FC, IF, IHC, WB, ELISA

### Cited Applications:

WB, IF, IHC, CoIP

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, rat, mouse, zebrafish, hamster, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HepG2 cells, pig heart tissue, U-251 cells, LNCaP cells, U-87 MG cells, C6 cells, HEK-293 cells, HeLa cells, HuH-7 cells, LO2 cells, HSC-T6 cells, NIH/3T3 cells

**IHC** : human breast cancer tissue, human prostate cancer tissue

**IF** : HeLa cells,

## Background Information

Vinculin belongs to the vinculin/alpha-catenin family. It is an actin filament (F-actin)-binding protein which involved in cell-matrix adhesion and cell-cell adhesion. Vinculin regulates cell-surface E-cadherin expression and potentiates mechanosensing by the E-cadherin complex. It may also play important roles in cell morphology and locomotion. Vinculin is a 117-kDa, 1,066-amino-acid protein which is ubiquitously expressed. Its splice variant, metavinculin (124 kDa), is muscle-specific.

## Notable Publications

Author	Pubmed ID	Journal	Application
Juan M Barajas	34599880	Am J Pathol	WB
Tingben Huang	36167235	Acta Biomater	IF
Yizhou Zhu	31507175	ACS Appl Mater Interfaces	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

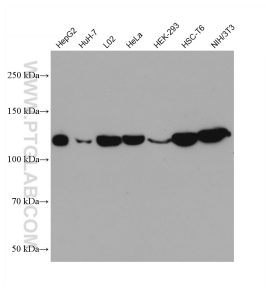
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

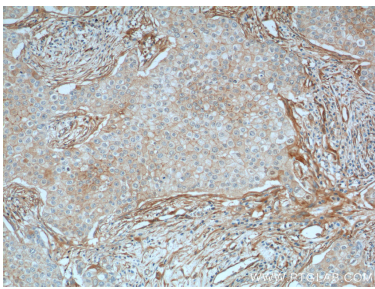
W: [ptgcn.com](http://ptgcn.com)

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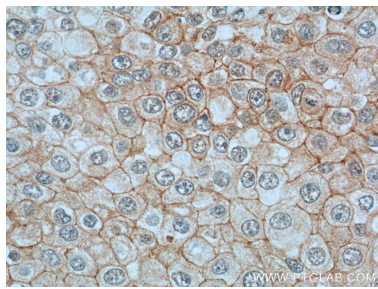
Selected Validation Data



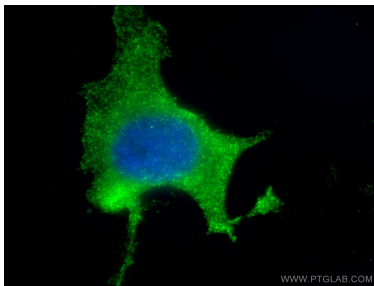
Various lysates were subjected to SDS PAGE followed by western blot with 66305-1-Ig (Vinculin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



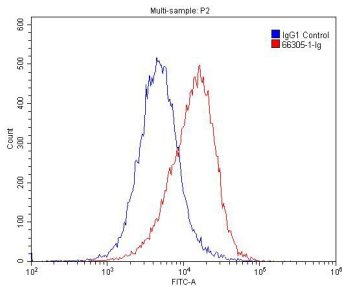
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66305-1-Ig (Vinculin Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66305-1-Ig (Vinculin Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde ) fixed HeLa cells using 66305-1-Ig(Vinculin antibody) at dilution of 1:200 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug Vinculin antibody (66305-1-Ig, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.