

Vinculin Monoclonal antibody

Catalog Number: 66305-1-Ig 121 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:

CoIP, IF, IHC, WB

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:

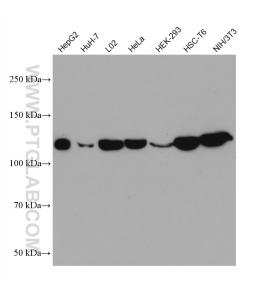
T: 4006900926

E: Proteintech-CN@ptglab.com

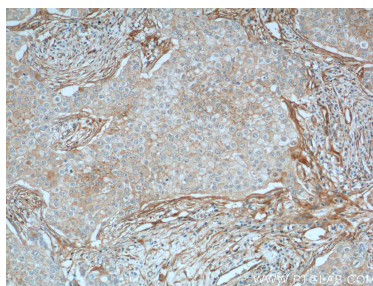
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

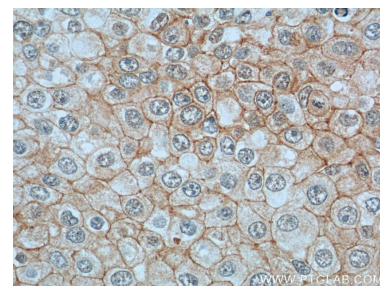
Selected Validation Data



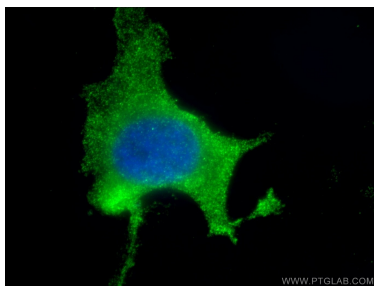
Various lysates were subjected to SDS PAGE followed by western blot with 66305-1-Ig (Vinculin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



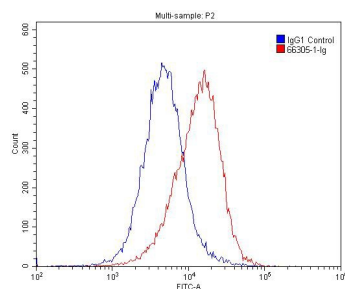
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66305-1-Ig (Vinculin Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10⁶ 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.