

Vinculin Monoclonal antibody

Catalog Number: 66305-1-Ig 121 Publications

Basic Information

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| Catalog Number: 66305-1-Ig | GenBank Accession Number: BC039174 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 7414 | CloneNo.: 2B5A7 |
| Source: Mouse | UNIPROT ID: P18206 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF 1:50-1:500 |
| Isotype: IgG1 | Full Name: vinculin | |
| Immunogen Catalog Number: AG24946 | Calculated MW: 1133 aa, 124 kDa | |
| | Observed MW: 117 kDa | |

Applications

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| Tested Applications: FC, IF, IHC, WB, ELISA | Positive Controls: |
| Cited Applications: CoIP, IF, IHC, WB | 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 |
| Species Specificity: human, mouse, rat, pig | IHC : human breast cancer tissue, human prostate cancer tissue |
| Cited Species: human, rat, mouse, zebrafish, hamster, pig | IF : HeLa cells, |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

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

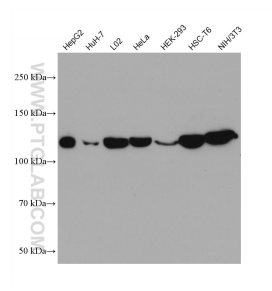
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

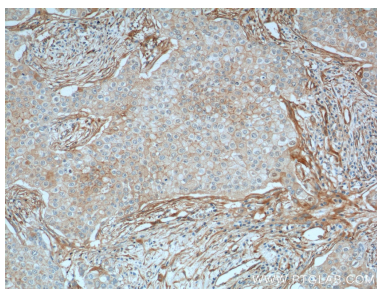
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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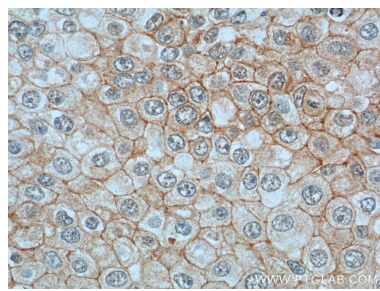
Selected Validation Data



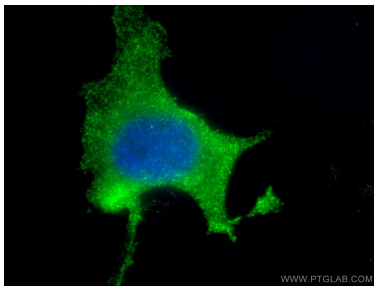
Various lysates were subjected to SDS PAGE followed by western blot with 66305-1-Ig (Vinculin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



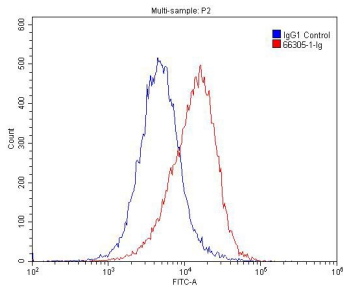
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66305-1-Ig (Vinculin Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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.