

For Research Use Only

Vinculin Polyclonal antibody

Catalog Number: 26520-1-AP

127 Publications



Basic Information

Catalog Number:

26520-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24942

GenBank Accession Number:

BC039174

GeneID (NCBI):

7414

UNIPROT ID:

P18206

Full Name:

vinculin

Calculated MW:

1133 aa, 124 kDa

Observed MW:

124 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:60000

IHC: 1:1000-1:4000

IF/ICC: 1:200-1:800

FC (Intra): 0.20 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human, mouse, rat, canine

Cited Species:

human, mouse, rat, pig, rabbit, canine

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: HEK-293 cells, HeLa cells, HepG2 cells, MDCK cells, NIH/3T3 cells, PC-12 cells, mouse heart tissue, rat heart tissue

IHC: mouse colon tissue, human breast cancer tissue, human prostate cancer tissue, human skeletal muscle tissue, mouse skeletal muscle tissue

IF/ICC: HepG2 cells, A549 cells

FC (Intra): HepG2 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
Lan Zhang	34586738	Clin Transl Med	WB
Zhixiong Chen	30178500	Prostate	WB
Jingxuan Chen	36316321	Cell Death Discov	WB,IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

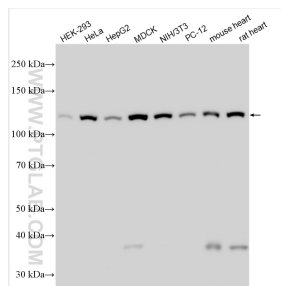
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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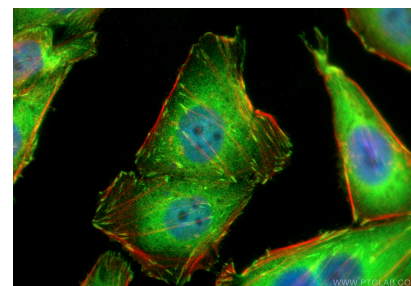
Selected Validation Data



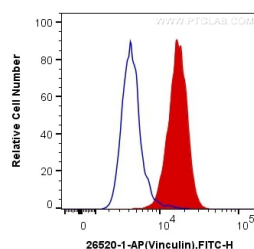
Various lysates were subjected to SDS PAGE followed by western blot with 26520-1-AP (Vinculin antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 26520-1-AP (Vinculin antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Vinculin antibody (26520-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



1X10⁶ HepG2 cells were intracellularly stained with 0.2 ug Anti-Human Vinculin (26520-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).