

For Research Use Only

# Talin-1 Recombinant antibody

Catalog Number: 82856-18-RR

Featured Product



## Basic Information

Catalog Number:

82856-18-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5367

GenBank Accession Number:

BC042923

GeneID (NCBI):

7094

UNIPROT ID:

Q9Y490

Full Name:

talin 1

Calculated MW:

2541 aa, 270 kDa

Observed MW:

~270 kDa

Purification Method:

Protein A purification

CloneNo.:

240294G5

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:200-1:800

IF/ICC 1:200-1:800

## Applications

Tested Applications:

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

Species Specificity:

human, mouse, rat

**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: PC-12 cells, HeLa cells, C6 cells, MCF-7 cells, HUVEC cells, NIH/3T3 cells, HepG2 cells

IHC: human intrahepatic cholangiocarcinoma tissue,

IF/ICC: A549 cells,

## Background Information

Talin-1 is a large cytoskeletal protein consisting of a globular head domain and a long rod comprised of a series of  $\alpha$ -helical bundles (PMID: 35266014). Talin-1 is ubiquitously expressed and is a major component of focal adhesions which are multi-protein, integrin-containing complexes, mediating cell migration, adhesion and integrin signalling (PMID: 33431906). Talin-1 also plays a role in tumor formation, migration and metastasis in various malignancies (PMID: 37013489).

## 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

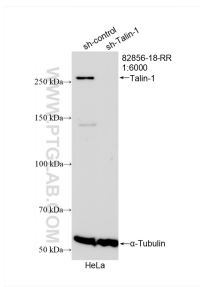
For technical support and original validation data for this product please contact:

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

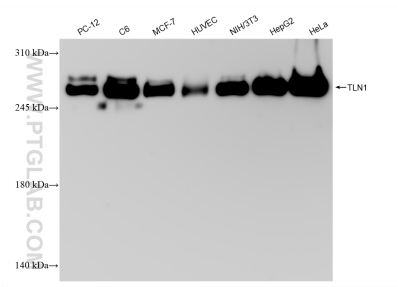
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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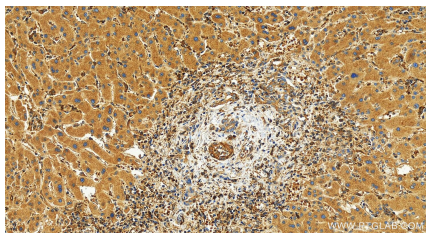
Selected Validation Data



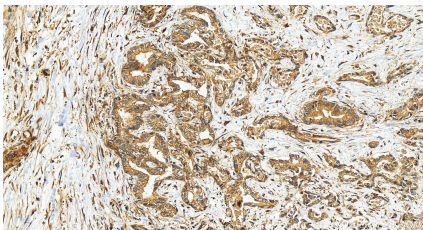
WB result of Talin-1 antibody (82856-18-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Talin-1 transfected HeLa cells.



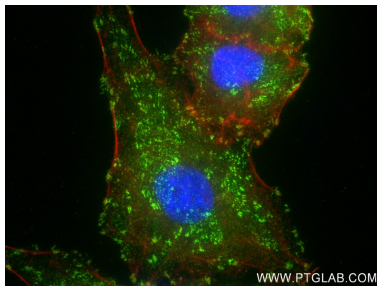
Various lysates were subjected to SDS PAGE followed by western blot with 82856-18-RR (Talin-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



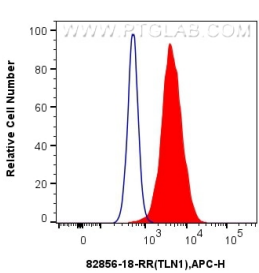
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82856-18-RR (Talin-1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



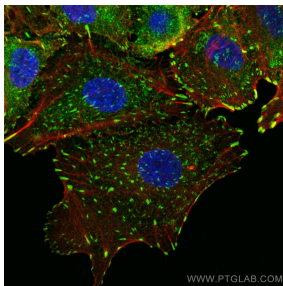
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82856-18-RR (Talin-1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



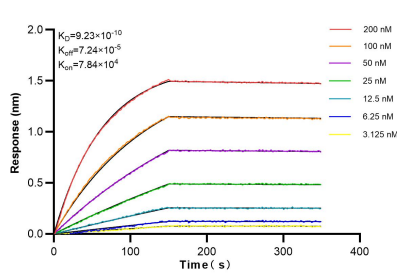
Immunofluorescent analysis of (4% PFA) fixed A549 cells using Talin-1 antibody (82856-18-RR, Clone: 240294G5) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug Talin-1 Recombinant Antibody (82856-18-RR, Clone: 240294G5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Talin-1 antibody (82856-18-RR, Clone: 240294G5) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), (CL594-Phalloidin, red).



Biolayer interferometry (BLI) kinetic assays of 82856-18-RR against Human TLN1 were performed. The affinity constant is 0.923 nM.