

For Research Use Only

# ACTN4 Polyclonal antibody

Catalog Number: 19096-1-AP

Featured Product

26 Publications



## Basic Information

### Catalog Number:

19096-1-AP

### Concentration:

800 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13546

### GenBank Accession Number:

BC005033

### GeneID (NCBI):

81

### UNIPROT ID:

O43707

### Full Name:

actinin, alpha 4

### Calculated MW:

105 kDa

### Observed MW:

100-105 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:2500-1:10000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, ELISA

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, 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-293T cells, mouse liver tissue, HeLa cells, Jurkat cells, C2C12 cells, NIH/3T3 cells, mouse skeletal muscle, rat skeletal muscle

**IP** : HeLa cells,

**IHC** : human colon tissue, human breast cancer tissue, human lung cancer tissue

**IF/ICC** : MCF-7 cells, HeLa cells

## Background Information

ACTN4 (alpha actinin 4) is a ubiquitous actin-binding protein that cross-links actin filaments into bundles to form filopodia, and has a crucial role in cytoskeletal organization. ACTN4 is colocalized with actin stress fibers and is dispersed in the cytoplasm and in the nucleus. Increased levels of ACTN4 have been associated with cancer metastasis, indicating its implication in cancer cell migration and metastasis. Defects in ACTN4 cause glomerular disease. This antibody recognizes 100-105 kDa of endogenous ACTN4 protein in various lysates. (22370640, 10700177)

## Notable Publications

Author	Pubmed ID	Journal	Application
Ming-Chuan Wang	25299231	J Thorac Oncol	ELISA
Qiang Wang	34606417	Bioengineered	WB
Hongfei Ge	27874083	Sci Rep	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

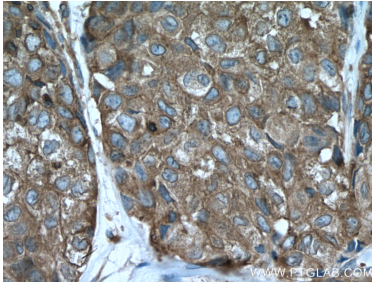
T: 4006900926

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

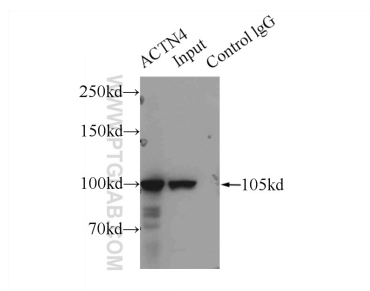
W: [ptgcn.com](http://ptgcn.com)

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

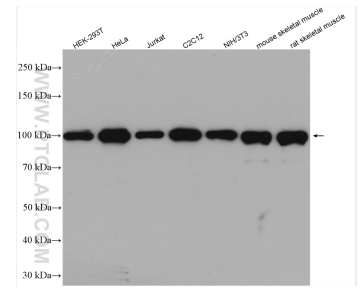
## Selected Validation Data



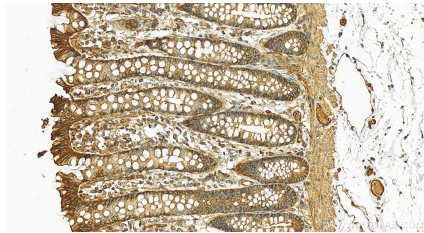
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 19096-1-AP (ACTN4 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



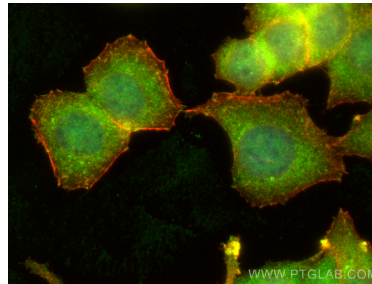
IP result of anti-ACTN4 (IP:19096-1-AP, 5ug; Detection:19096-1-AP 1:1000) with HeLa cells lysate 3000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 19096-1-AP (ACTN4 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 19096-1-AP (ACTN4 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using ACTN4 antibody (19096-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).