

For Research Use Only

# MACF1 Polyclonal antibody

Catalog Number: 13058-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

13058-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3730

### GenBank Accession Number:

BC007330

### GeneID (NCBI):

23499

### UNIPROT ID:

Q9UPN3

### Full Name:

microtubule-actin crosslinking factor 1

### Calculated MW:

5430 aa, 620 kDa

### Observed MW:

600 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**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 : U-87 MG cells, NIH/3T3 cells, mouse lung tissue

IHC : human lung tissue, human skeletal muscle tissue, human heart tissue

IF/ICC : U-251 cells, NIH/3T3 cells

## Background Information

MACF1, also called ACF7 (actin crosslinking family 7), is a member of the spectraplakin family and is a ubiquitously expressed 614 kDa protein. This protein facilitates actin-microtubule interactions at the cell periphery and couples the microtubule network to cellular junctions. It displays a conserved role in membrane protrusion formation during evolution. The two major MACF1 isoforms characterized to date, MACF1a and MACF1b, result from alternative splicing. Both proteins contain N-terminal actin-binding domains (ABD), followed by plakin domains, extended spectrin repeat domains, EF-hand motifs, and C-terminal microtubule-binding domains (MTBDs). MACF1 is expressed in numerous tissue, including the skin, brain, skeletal muscle, and heart.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ying Hsu	29049287	PLoS Genet	WB
Qian Yao	29312635	Oncotarget	WB
Lifang Hu	33664480	Cell Death Differ	WB

## 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

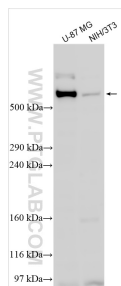
For technical support and original validation data for this product please contact:

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

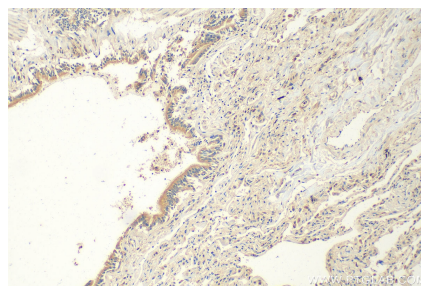
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

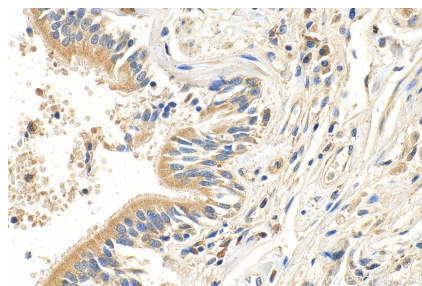
## Selected Validation Data



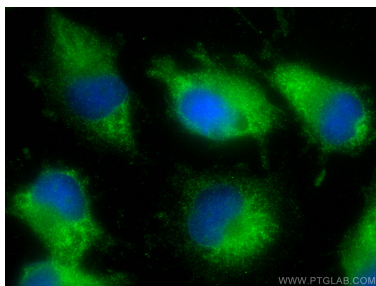
Various lysates were subjected to SDS PAGE followed by western blot with 13058-1-AP (MACF1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 13058-1-AP (MACF1 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 lung tissue slide using 13058-1-AP (MACF1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using MACF1 antibody (13058-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).