

For Research Use Only

# CAP1 Monoclonal antibody

Catalog Number: 68207-1-Ig



## Basic Information

<b>Catalog Number:</b> 68207-1-Ig	<b>GenBank Accession Number:</b> BC013963	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10487	<b>CloneNo.:</b> 2H3A10
<b>Source:</b> Mouse	<b>Full Name:</b> CAP, adenylate cyclase-associated protein 1 (yeast)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 475 aa, 52 kDa	
<b>Immunogen Catalog Number:</b> AG8876	<b>Observed MW:</b> 52 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

Human, mouse, rat, pig, rabbit

**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 :** mouse testis tissue, pig lung tissue, human  
placenta tissue, mouse lung tissue, rat lung tissue,  
rabbit lung tissue

**IHC :** human colon cancer tissue, mouse testis tissue

**IF :** HepG2 cells, HeLa cells

## Background Information

CAP1, also known as CAP, CAP1-PEN, belongs to the CAP family and contains 1 C-CAP/cofactor C-like domain. CAP1 binds to monomeric actin and regulates the actin cytoskeleton to control cell size, adhesion, and migration (PMID: 23737525). CAP1 also functions as a receptor for inflammatory cytokine resistin (PMID: 24606903). CAP1 is an abundant and ubiquitously expressed protein. Western blot analysis detected CAP1 at an apparent molecular mass of 52 kDa.

## 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

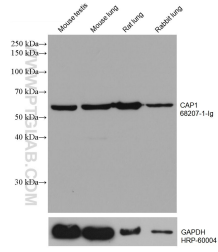
For technical support and original validation data for this product please contact:

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

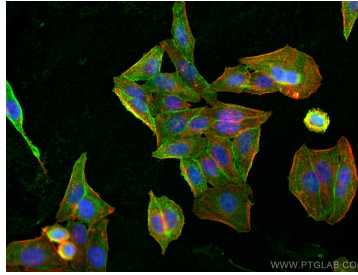
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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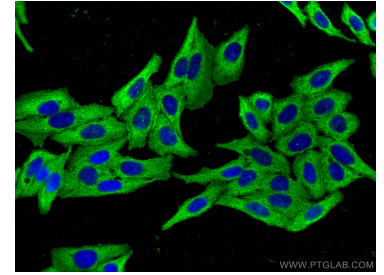
## Selected Validation Data



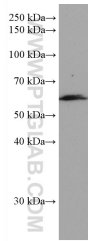
Various lysates were subjected to SDS PAGE followed by western blot with 68207-1-Ig (CAP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



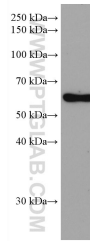
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CAP1 antibody (68207-1-Ig, Clone: 2H3A10) at dilution of 1:800 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



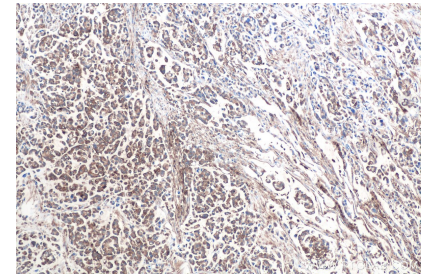
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CAP1 antibody (68207-1-Ig, Clone: 2H3A10) at dilution of 1:800 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



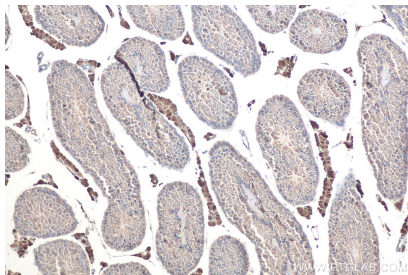
pig lung tissue were subjected to SDS PAGE followed by western blot with 68207-1-Ig (CAP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



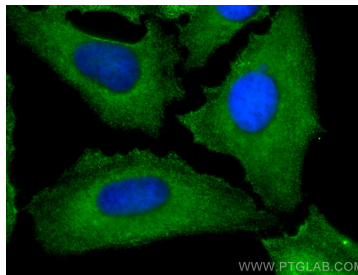
human placenta tissue were subjected to SDS PAGE followed by western blot with 68207-1-Ig (CAP1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 68207-1-Ig (CAP1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 68207-1-Ig (CAP1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CAP1 antibody (68207-1-Ig, Clone: 2H3A10) at dilution of 1:400 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).