

For Research Use Only

# Caveolin-1 Monoclonal antibody

Catalog Number: 66067-1-Ig

Featured Product

13 Publications



## Basic Information

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| <b>Catalog Number:</b><br>66067-1-Ig   | <b>GenBank Accession Number:</b><br>BC006432             | <b>Purification Method:</b><br>Protein A purification                                      |
| <b>Size:</b><br>150ul, Concentration: 1300 µg/ml by Nanodrop and 740 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>857                             | <b>CloneNo.:</b><br>6C2B2  |
| <b>Source:</b><br>Mouse  | <b>UNIPROT ID:</b><br>Q03135                             | <b>Recommended Dilutions:</b><br>WB 1:2000-1:50000<br>IHC 1:2500-1:10000<br>IF 1:200-1:800 |
| <b>Isotype:</b><br>IgG1  | <b>Full Name:</b><br>caveolin 1, caveolae protein, 22kDa |  |
| <b>Immunogen Catalog Number:</b><br>AG8049   | <b>Calculated MW:</b><br>22 kDa                          |  |
|  | <b>Observed MW:</b><br>20-25 kDa                         |  |

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, IHC, IP, WB

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, sheep, mouse, 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:** A549 cells, HeLa cells, A431 cells, PC-3 cells, human heart tissue, pig heart tissue, Rat heart tissue, mouse heart tissue

**IHC:** human breast cancer tissue, human liver cancer tissue

**IF:** human liver cancer tissue, human skin cancer tissue

## Background Information

Caveolin-1 (CAV1), a multifunctional protein, is the main constituent molecule of caveolae and represents a scaffolding molecule for several signaling molecules including epidermal growth factor receptor (PMID: 19641024). Several studies have implicated that a reduced expression of CAV1 was found in cancers including head and neck carcinoma (PMID: 19002186). However, other studies recognize CAV1 as a tumor promoter because CAV1 is overexpressed in various kinds of cancers, especially in oral cancer (PMID: 20558341). Recent study also show that CAV1 is involved in gastric Cancer (PMID: 25339030).

## Notable Publications

| Author      | Pubmed ID | Journal               | Application |
|-------------|-----------|-----------------------|-------------|
| Miao Liu    | 36063979  | Life Sci              | WB,IF,IP    |
| Kushal Saha | 36219473  | J Crohns Colitis      | WB          |
| Yi Wang     | 33165443  | Int J Clin Exp Pathol | 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

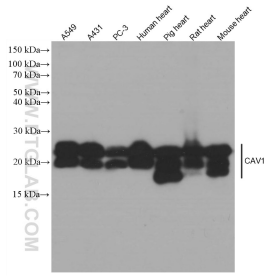
For technical support and original validation data for this product please contact:

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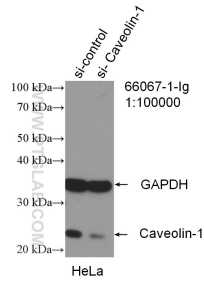
E: proteintech@ptglab.com  
W: ptglab.com

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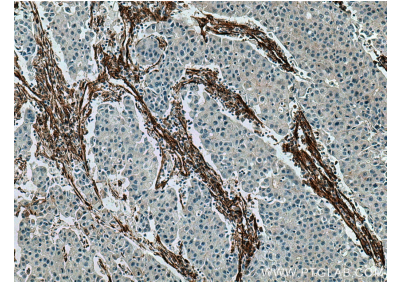
## Selected Validation Data



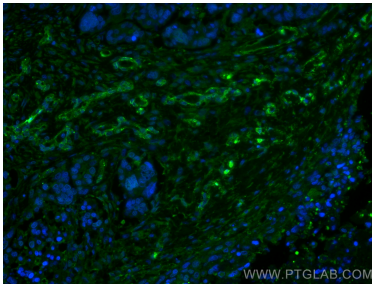
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



WB result of Caveolin-1 antibody (66067-1-Ig; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caveolin-1 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Caveolin-1 antibody (66067-1-Ig, Clone: 6C2B2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).