

For Research Use Only

# Caveolin-1 Monoclonal antibody

Catalog Number: 66067-1-Ig

Featured Product

13 Publications



## Basic Information

Catalog Number:

66067-1-Ig

Size:

1300 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8049

GenBank Accession Number:

BC006432

GeneID (NCBI):

857

UNIPROT ID:

Q03135

Full Name:

caveolin 1, caveolae protein, 22kDa

Calculated MW:

22 kDa

Observed MW:

20-25 kDa

Purification Method:

Protein A purification

CloneNo.:

6C2B2

Recommended Dilutions:

WB 1:2000-1:50000

IHC 1:2500-1:10000

IF 1:200-1:800

## Applications

Tested Applications:

IF-P, 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

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

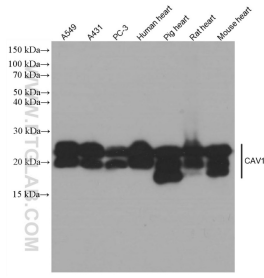
T: 4006900926

E: Proteintech-CN@ptglab.com

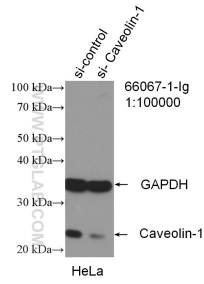
W: ptgcn.com

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

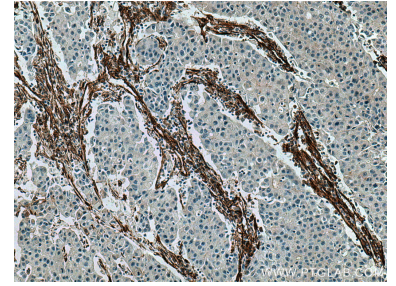
## Selected Validation Data



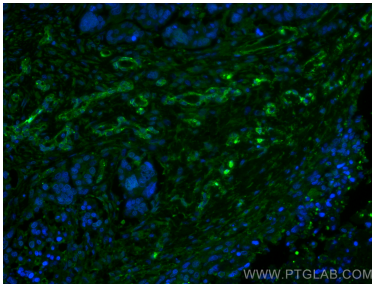
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



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).