

For Research Use Only

# Caveolin-1 Monoclonal ANTIBODY



Catalog Number: 66067-1-Ig

Featured Product

2 Publications

## Basic Information

Catalog Number:  
66067-1-Ig

Size:  
111 µg/150 µl

Source:  
Mouse

Isotype:  
IgG1

Purification Method:  
Protein G purification

Immunogen Catalog Number:  
AC8049

GenBank Accession Number:  
BC006432

GeneID (NCBI):  
857

Full Name:  
caveolin 1, caveolae protein, 22kDa

Calculated MW:  
22 kDa

Observed MW:  
20-25 kDa

Recommended Dilutions:  
WB 1:2000-1:50000  
IHC 1:2500-1:10000

## Applications

Tested Applications:  
IHC, WB, ELISA

Cited Applications:  
IHC, WB

Species Specificity:  
human, mouse, rat, pig

Cited Species:  
human

**Note: 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

IHC : human skin cancer tissue; human liver 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 (PMD: 19641024). Several studies have implicated that a reduced expression of CAV1 was found in cancers including head and neck carcinoma (PMD: 19002186). However, other studies recognize CAV1 as a tumor promoter because CAV1 is overexpressed in various kinds of cancers, especially in oral cancer (PMD: 20558341). Recent study also show that CAV1 is involved in gastric Cancer (PMD: 25339030).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-De Chu	30858354	Cell Death Dis	IHC
Jing Zhang	28590090	Proteomics	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

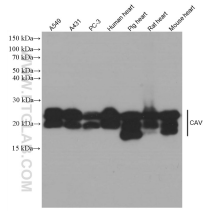
For technical support and original validation data for this product please contact:

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

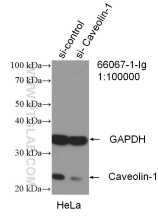
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

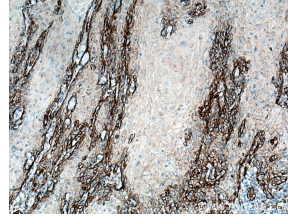
## Selected Validation Data



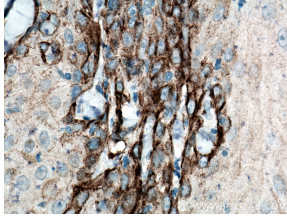
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours



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 skin cancer tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:5000 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:5000 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).