

Caveolin-1 Monoclonal antibody

Catalog Number: 66067-1-Ig

Featured Product

23 Publications

Basic Information

Catalog Number:

66067-1-Ig

Concentration:

1000 ug/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 G purification

CloneNo.:

6C2B2

Recommended Dilutions:

WB: 1:2000-1:50000

IHC: 1:2000-1:8000

IF-P: 1:200-1:800

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, canine, chicken, sheep

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 ovary tumor tissue, human breast cancer tissue, human liver cancer tissue

IF-P: human liver cancer tissue, human skin cancer tissue

IF/ICC: A549 cells,

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,IP,IF
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, pH7.3

Aliquoting is unnecessary for -20°C storage

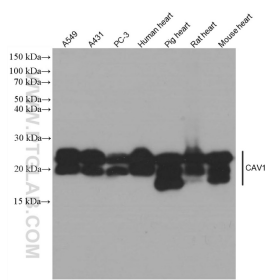
For technical support and original validation data for this product please contact:

T: 4006900926

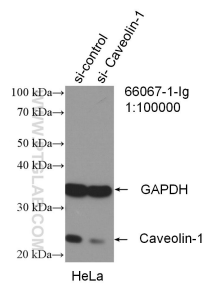
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

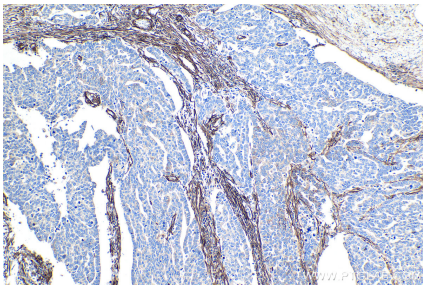
Selected Validation Data



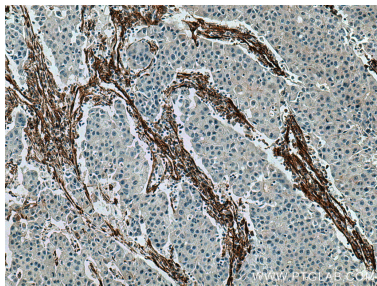
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



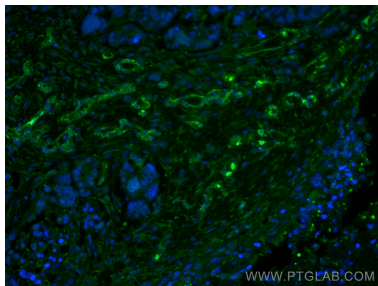
WB result of Caveolin-1 antibody (66067-1-Ig; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caveolin-1 transfected HeLa cells.



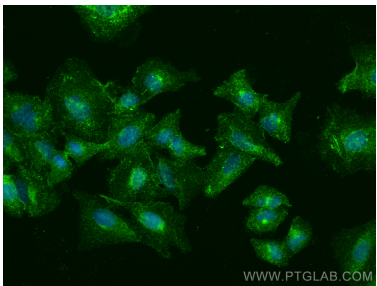
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using Caveolin-1 antibody (66067-1-Ig, Clone: 6C2B2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).