For Research Use Only

Caveolin-1 Monoclonal antibody

Catalog Number:66067-1-Ig Featured Product 19 Publications

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Basic Information

Catalog Number:
66067-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

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 1:2000-1:8000
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, 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,IF,IP
Kushal Saha	36219473	J Crohns Colitis	WB
Yi Wang	33165443	Int J Clin Exp Pathol	WB

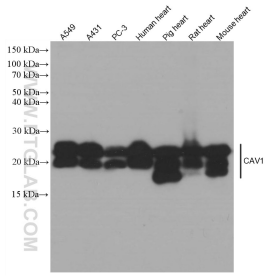
Storage

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

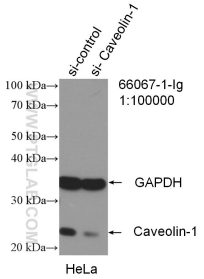
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

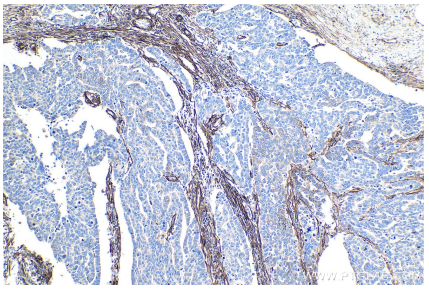
Selected Validation Data



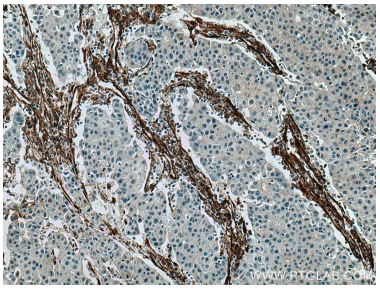
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



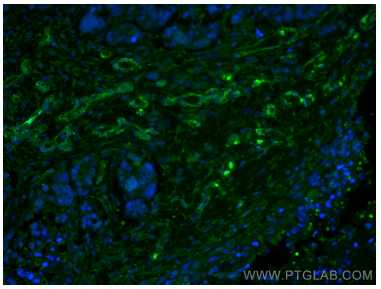
WB result of Caveolin-1 antibody (66067-1-Ig; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caveolin-1 transfected HeLa cells.



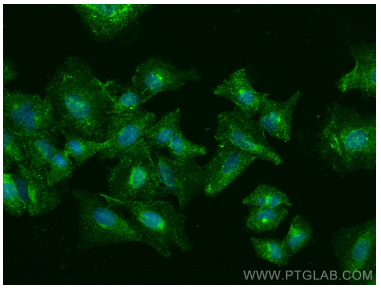
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).