

For Research Use Only

Caveolin-1 Monoclonal antibody

Catalog Number: 66067-1-Ig

Featured Product

25 Publications



Basic Information

Catalog Number: 66067-1-Ig	GenBank Accession Number: BC006432	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 857	CloneNo.: 6C2B2
Source: Mouse	UNIPROT ID: Q03135	Recommended Dilutions: WB: 1:2000-1:50000 IHC: 1:2000-1:8000 IF-P: 1:200-1:800 IF/ICC: 1:200-1:800
Isotype: IgG1	Full Name: caveolin 1, caveolae protein, 22kDa	
Immunogen Catalog Number: AG8049	Calculated MW: 22 kDa	
	Observed MW: 20-25 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, IP	WB : A549 cells, HeLa cells, A431 cells, PC-3 cells, human heart tissue, pig heart tissue, Rat heart tissue, mouse heart tissue
Species Specificity: human, mouse, rat, pig	IHC : human ovary tumor tissue, human breast cancer tissue, human liver cancer tissue
Cited Species: human, mouse, rat, pig, canine, chicken, sheep	IF-P : human liver cancer tissue, human skin cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

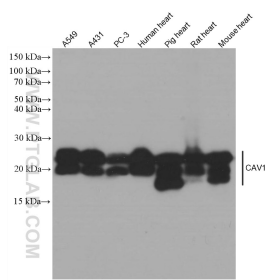
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

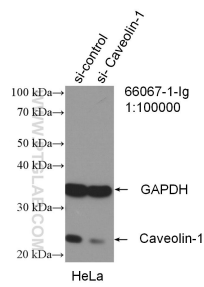
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

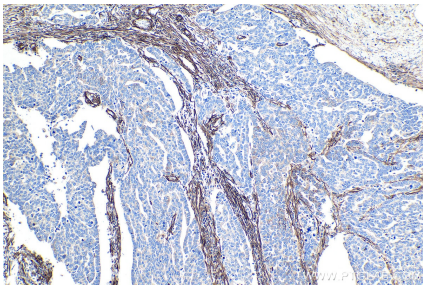
Selected Validation Data



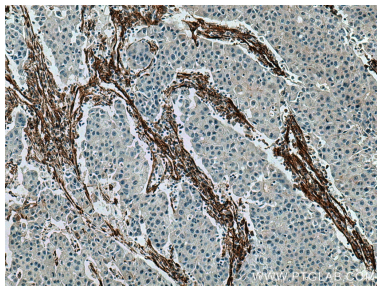
Various lysates were subjected to SDS PAGE followed by western blot with 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



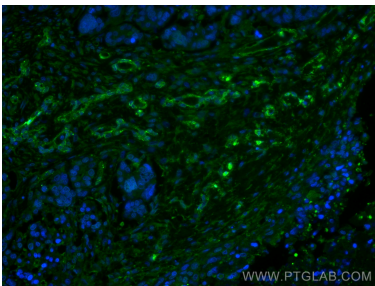
WB result of Caveolin-1 antibody (66067-1-Ig; 1:100000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caveolin-1 transfected HeLa cells.



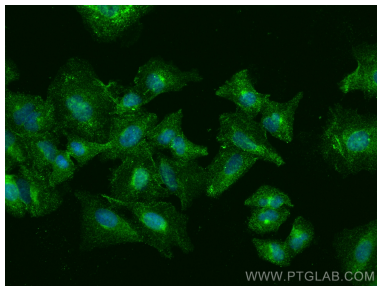
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66067-1-Ig (Caveolin-1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).