Caveolin-1 Polyclonal ANTIBODY

Catalog Number: 16447-1-AP

Basic Information

Catalog Number:
16447-1-AP

Size:
38 μg/150 μl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG8049

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 1:600-1:5000
IP 0.5-4.0 μg for IP and 1:1000-1:5000 for WB

IHC 1:500-1:5000

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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: NIH/3T3 cells, A549 cells, HeLa cells
IP: A549 cells
IHC: human lung cancer tissue, human heart tissue, human liver tissue, human lung 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 astric Cancer (PMID: 25339030). MW of Caveolin-1 is from 20-25 kDa due to phosphorylation (PMID: 10198051).

Notable Publications

Author
Xiaodan Hou
Yudong Song
Cong Fa Huang

Pubmed ID
29137396
30241030
25337248

Journal
Oncotarget
Biomaterials
Int J Clin Exp Pathol

Application
WB
WB
IHC

Storage

Store at -20ºC. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20ºC 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
W: ptglab.com

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NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 16447-1-AP (Caveolin-1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

WB result of Caveolin-1 antibody (16447-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Caveolin-1 transfected HeLa cells.

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16447-1-AP (Caveolin-1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16447-1-AP (Caveolin-1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

IP Result of anti-Caveolin-1 (IP: 16447-1-AP, 3ug; Detection: 16447-1-AP 1:500) with A549 cells lysate 1200ug.