

For Research Use Only

# Caveolin-1 Recombinant antibody

Catalog Number: 84044-1-RR



## Basic Information

Catalog Number: 84044-1-RR	GenBank Accession Number: BC006432	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 857	CloneNo.: 240985E4
Source: Rabbit	UNIPROT ID: Q03135	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000
Isotype: IgG	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, ELISA

Species Specificity:  
human, mouse

**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, MDA-MB-231 cells

IHC : human colon cancer tissue, human colon tissue,  
human lung squamous cell carcinoma 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 gastric Cancer (PMID: 25339030).

## 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:

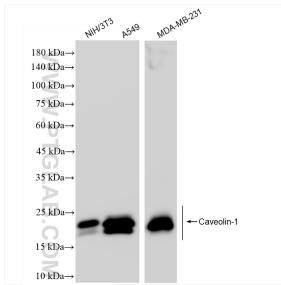
T: 4006900926

E: Proteintech-CN@ptglab.com

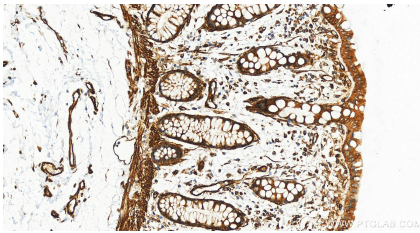
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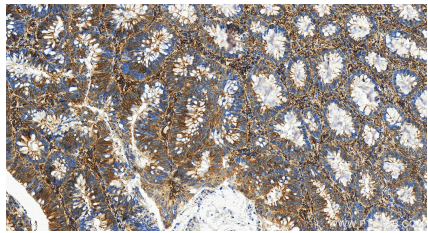
Selected Validation Data



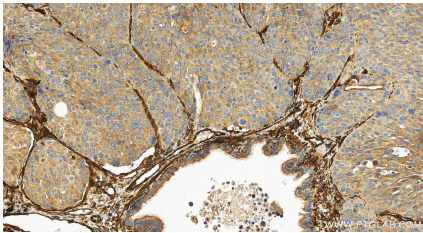
Various lysates were subjected to SDS PAGE followed by western blot with 84044-1-RR (Caveolin-1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



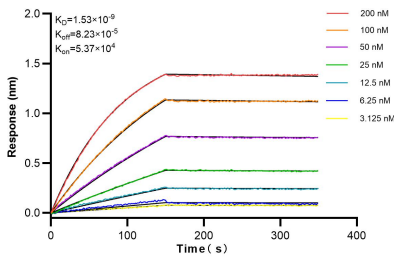
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 84044-1-RR (Caveolin-1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 84044-1-RR (Caveolin-1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung squamous cell carcinoma tissue slide using 84044-1-RR (Caveolin-1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84044-1-RR against Human Caveolin-1 were performed. The affinity constant is 1.53 nM.