For Research Use Only

Caveolin-1 Recombinant antibody

Catalog Number:84044-1-RR



Basic Information

Catalog Number: GenBank Accession Number:

84044-1-RR BC006432 Protein A purfication

GeneID (NCBI): CloneNo.: 100ul , Concentration: 1000 μ g/ml by 857 240985E4

Nanodrop: **UNIPROT ID:** Recommended Dilutions: Q03135 WB 1:5000-1:50000 Rabbit IHC 1:250-1:1000 Full Name:

Isotype: caveolin 1, caveolae protein, 22kDa

IgG Calculated MW: Immunogen Catalog Number: 22 kDa AG8049 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

Purification Method:

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

Store at -20°C. Stable for one year after shipment.

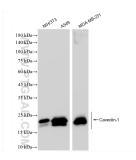
Storage Buffer:

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

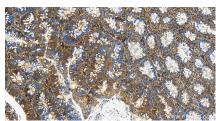
Selected Validation Data



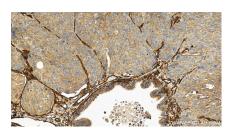
Various lysates were subjected to SDS PAGE followed by western blot with 84044-1-RR (Caveolin-1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



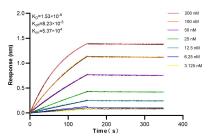
Immunohistochemical analysis of paraffinembedded human colon tissue slide using 84044-1-RR (Caveolin-1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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 paraffinembedded 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 (BLL) kinetic assays of 84044-1-RR against Human Caveolin-1 were performed. The affinity constant is 1.53 nM.