

For Research Use Only

Caveolin-1 Recombinant antibody, PBS Only

Catalog Number: 84044-1-PBS



Basic Information

Catalog Number: 84044-1-PBS	GenBank Accession Number: BC006432	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 857	CloneNo.: 240985E4
Source: Rabbit	UNIPROT ID: Q03135	
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

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 -80°C.

Storage Buffer:
PBS Only

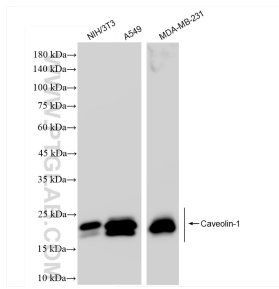
For technical support and original validation data for this product please contact:

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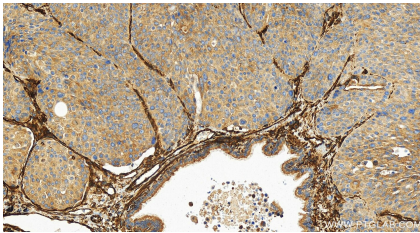
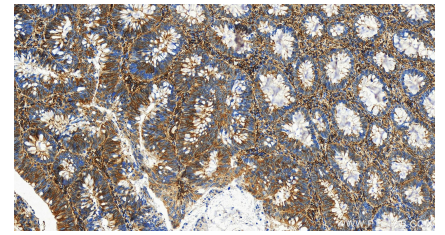
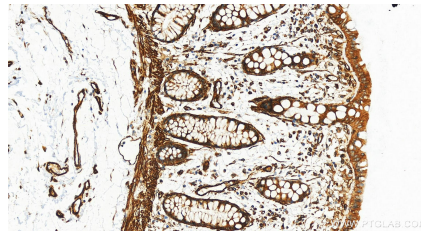
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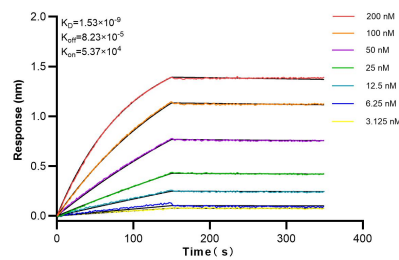
Selected Validation Data



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. This data was developed using the same antibody clone with 84044-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84044-1-PBS in a different storage buffer formulation.



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