

**Phospho-Caveolin-1 (Tyr14) Antibody**  
**Catalog # ABV11985****Specification**

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**Phospho-Caveolin-1 (Tyr14) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q03135</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	20472

**Phospho-Caveolin-1 (Tyr14) Antibody - Additional Information****Gene ID** 857

Positive Control	WB: HeLa cell, A549 cell lysate
Application & Usage	WB 1:500-1:2000; E 1:5000
<b>Other Names</b>	
Caveolin-1, CAV1, CAV	

**Target/Specificity**  
CAV1**Antibody Form**  
Liquid**Appearance**  
Colorless liquid**Handling**  
The antibody solution should be gently mixed before use**Reconstitution & Storage**  
-20°C**Background Descriptions****Precautions**  
Phospho-Caveolin-1 (Tyr14) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**Phospho-Caveolin-1 (Tyr14) Antibody - Protein Information****Name** CAV1**Synonyms** CAV

## Function

May act as a scaffolding protein within caveolar membranes (PubMed:<a href="http://www.uniprot.org/citations/11751885" target="\_blank">11751885</a>). Forms a stable heterooligomeric complex with CAV2 that targets to lipid rafts and drives caveolae formation. Mediates the recruitment of CAVIN proteins (CAVIN1/2/3/4) to the caveolae (PubMed:<a href="http://www.uniprot.org/citations/19262564" target="\_blank">19262564</a>). Interacts directly with G-protein alpha subunits and can functionally regulate their activity (By similarity). Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/17287217" target="\_blank">17287217</a>). Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway (By similarity). Negatively regulates TGFBR1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation (PubMed:<a href="http://www.uniprot.org/citations/25893292" target="\_blank">25893292</a>). Binds 20(S)-hydroxycholesterol (20(S)-OHC) (By similarity).

## Cellular Location

Golgi apparatus membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Membrane raft. Golgi apparatus, trans-Golgi network {ECO:0000250|UniProtKB:P33724} Note=Colocalized with DPP4 in membrane rafts. Potential hairpin-like structure in the membrane. Membrane protein of caveolae

## Tissue Location

Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Expressed in the brain

## Phospho-Caveolin-1 (Tyr14) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Phospho-Caveolin-1 (Tyr14) Antibody - Images

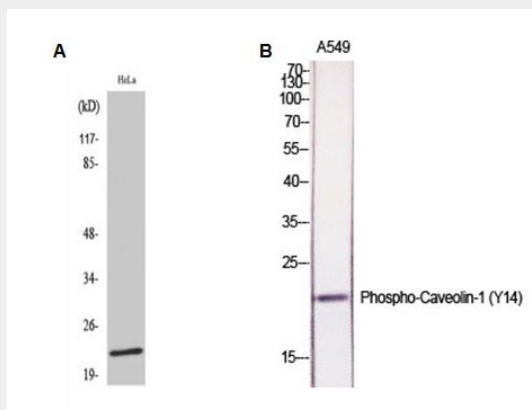


Fig A. WB (WB) analysis of HeLa cells using Phospho-Caveolin-1 (Y14) Polyclonal Antibody Fig B.  
WB (WB) analysis of A549 cells using Phospho-Caveolin-1 (Y14) Polyclonal Antibody