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

Specification

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

Application	**WB, E**
Primary Accession	Q03135
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**

Other Names
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:11751885). 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:19262564). 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:17287217). Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway (By similarity). Negatively regulates TGFB1-mediated activation of SMAD2/3 by mediating the internalization of TGFBR1 from membrane rafts leading to its subsequent degradation (PubMed:25893292). 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 Cytomety
- Cell Culture

Phospho-Caveolin-1 (Tyr14) Antibody - Images

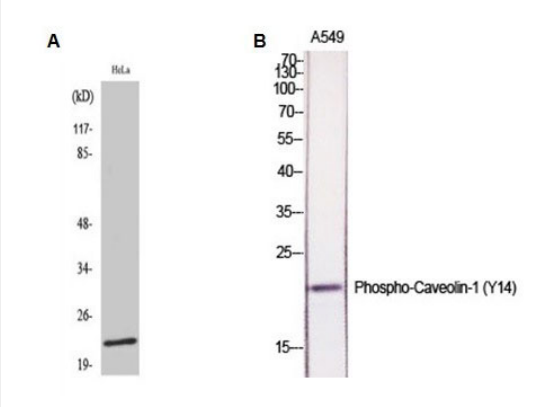

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Fig A. WB (WB) analysis of HeLa cells using Fhospho-Caveolin-1 (Y14) Polyclonal Antibody Fig B. WB (WB) analysis of A549 cells using Phospho-Caveolin-1 (Y14) Polyclonal Antibody