10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Phospho-Caveolin-1 (Tyr14) Antibody

Catalog # ABV11985

## Product Information

| | |
|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q03135 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Calculated MW** | 20472 |

## 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. |

## 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 |

## Images

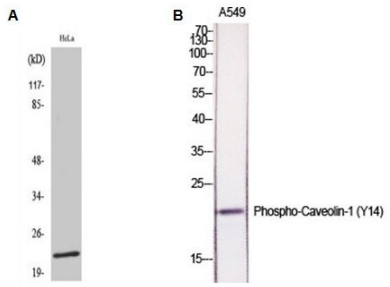


Fig A. WB (WB) analysis of HeLa cells using Fhospho-Caveolin-1 (Y14) Polyclonal Antibody Fig B. WB (WB) analysis of A549 cells using Phospho-Caveolin-1 (Y14) Polyclonal Antibody