

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody Catalog # ALS18190

Specification

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) - Product Information

WB, IHC-P, IF, ICC Application

Primary Accession 003135

Predicted Human, Mouse, Rat

Host **Rabbit** Clonality **Polyclonal** Calculated MW 20472

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) - Additional Information

Gene ID 857

Alias Symbol CAV1

Other Names

CAV1, Caveolin-1, CGL3, CAV, MSTP085, VIP21, BSCL3

Target/Specificity

Recognizes endogenous levels of Caveolin 1 protein.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

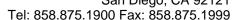
Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) - Protein Information

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

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) - 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

Anti-CAV1 / Caveolin 1 Antibody (C-Terminus) - Images