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CAV1 / Caveolin 1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10605

Specification

CAV1 / Caveolin 1 Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	Q03135
Reactivity	**Human, Mouse, Rabbit, Monkey, Pig, Sheep, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**20kDa KDa**

CAV1 / Caveolin 1 Antibody (N-Terminus) - Additional Information

Gene ID 857

Other Names
Caveolin-1, CAV1, CAV

Target/Specificity
Human CAV1 / Caveolin. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

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

CAV1 / Caveolin 1 Antibody (N-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:<a href="http://www.uniprot.org/citations/17287217"

target="_blank">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).

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

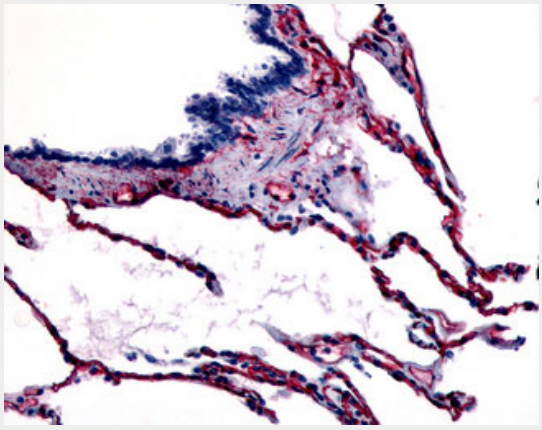
Volume
50 µl

CAV1 / Caveolin 1 Antibody (N-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

CAV1 / Caveolin 1 Antibody (N-Terminus) - Images



Anti-CAV1 / Caveolin antibody ALS10605 IHC of human respiratory epithelium, bronchial smooth...

CAV1 / Caveolin 1 Antibody (N-Terminus) - Background

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manner. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway.

CAV1 / Caveolin 1 Antibody (N-Terminus) - References

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Hurlstone A.F.,et al.Oncogene 18:1881-1890(1999).
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Vainonen J.P.,et al.Biochem. Biophys. Res. Commun. 320:480-486(2004).