

CAV1 / Caveolin 1 Antibody (aa2-104)
Rabbit Polyclonal Antibody
Catalog # ALS17009**Specification**

CAV1 / Caveolin 1 Antibody (aa2-104) - Product Information

Application	IHC, WB
Primary Accession	Q03135
Other Accession	857
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	20472

CAV1 / Caveolin 1 Antibody (aa2-104) - Additional Information**Gene ID** 857**Other Names**

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

Target/Specificity

Human CAV1 / Caveolin 1

Reconstitution & Storage

PBS, pH 7.4, 0.02% sodium azide, 50% glycerol. Store frozen product at or below -20°C. Thawed product may be stored for 2-4 weeks at 4°C. For optimal storage, aliquot to smaller portions and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Precautions

CAV1 / Caveolin 1 Antibody (aa2-104) is for research use only and not for use in diagnostic or therapeutic procedures.

CAV1 / Caveolin 1 Antibody (aa2-104) - Protein Information**Name** CAV1**Synonyms** CAV**Function**

May act as a scaffolding protein within caveolar membranes (PubMed:[11751885](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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 TGFBI-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

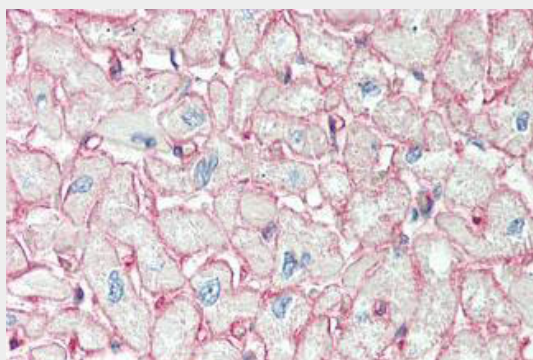
Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level). Expressed in the brain

CAV1 / Caveolin 1 Antibody (aa2-104) - Protocols

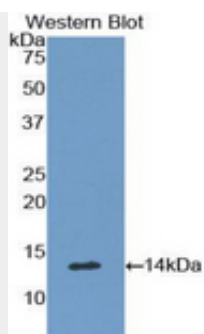
Provided below are standard protocols that you may find useful for product applications.

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

CAV1 / Caveolin 1 Antibody (aa2-104) - Images



Human Heart: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot of recombinant CAV1 / Caveolin 1.

CAV1 / Caveolin 1 Antibody (aa2-104) - Background

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CAV1 / Caveolin 1 Antibody (aa2-104) - References

Glenney J.R. Jr.,et al.FEBS Lett. 314:45-48(1992).
Hurlstone A.F.,et al.Oncogene 18:1881-1890(1999).
Engelman J.A.,et al.FEBS Lett. 448:221-230(1999).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Vainonen J.P.,et al.Biochem. Biophys. Res. Commun. 320:480-486(2004).