



Caveolin-1

Rabbit Monoclonal Antibody (Mab)
Catalog # APA512

## **Specification**

#### **Caveolin-1 - Product Information**

Application IHC
Primary Accession Q03135
Host Rabbit
Clonality Monoclonal
Calculated MW 20472 Da

### Caveolin-1 - Additional Information

Gene ID 857
Gene Name CAV1
Other Names

Dilution IHC~~1:100~500

Caveolin-1, CAV1, CAV

Storage Maintain refrigerated at 2-8°C for up to 2

weeks. For long term storage store at -20°C in small aliquots to prevent

freeze-thaw cycles.

Precautions Caveolin-1 is for research use only and not

for use in diagnostic or therapeutic

procedures.

#### **Caveolin-1 - 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

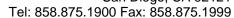
(CAVIN1/2/3/4) to the caveolae

(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







Cellular Location

Tissue Location

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). 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 Skeletal muscle, liver, stomach, lung, kidney and heart (at protein level).

**Expressed in the brain** 

#### Caveolin-1 - 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

# Caveolin-1 - Images