

**Caveolin-1**  
**Rabbit Monoclonal antibody(Mab)**  
**Catalog # AD80512****Specification**

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**Caveolin-1 - Product info**

Application	IHC-P
Primary Accession	<a href="#">Q03135</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	20472

**Caveolin-1 - Additional info**

Gene ID	857
<b>Other Names</b>	
Caveolin-1, CAV1, CAV	

**Dilution**  
IHC-P~~Ready-to-use

**Storage**  
Maintain refrigerated at 2-8°C

**Caveolin-1 - Protein Information****Name** CAV1

Synonyms  
Function

**CAV**  
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

#### Cellular Location

**CTNNB1-mediated signaling through the Wnt pathway (By similarity). Negatively regulates TGF $\beta$ 1-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).**

**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**

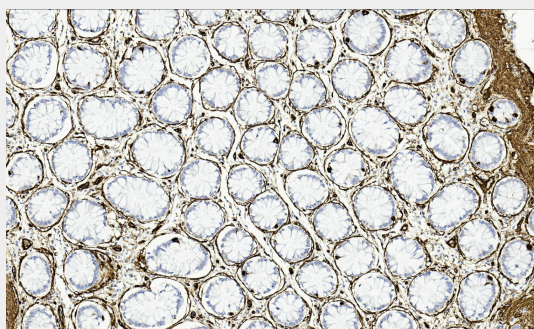
#### Tissue Location

### 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 Cytometry](#)
- [Cell Culture](#)

### Caveolin-1 - Images



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