

**Caveolin-1**  
**Rabbit Monoclonal Antibody (Mab)**  
**Catalog # APA512****Specification**

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**Caveolin-1 - Product Information**

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

**Caveolin-1 - Additional Information**

Gene ID	857
Gene Name	CAV1
<b>Other Names</b>	
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: <a href="#">11751885</a> ). 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: <a href="#">19262564</a> ). 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="#">17287217</a> ). Recruits CTNNB1 to

**Cellular Location**

caveolar membranes and may regulate 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](#)).

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**